



M12 Overmolded Cable

Product Catalogue





Contents



IP67
68 / 69K



UL 94-V0



Data
Transmission



IEC
Standard



Fully
Shielded



UV
Resistant



UL 1977
UL 2238
UL 1863



Space
Saving



Push Pull
Mechanism

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Product Selection Guide

Circular (Ceres, X-Lok, M)

	Mating Style						Materials	No. of Contacts	Contacts		Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	High Speed		Salt Spray (Connector, Mated)
	2 Points Lock	3 Points Lock	Push Lock	Push Pull	Screw Thread	Others			Gold Plated	Silver Plated					Cat. 5e	Cat. 6A	
Ceres Series																	
Mini	•				•		B	2-6	•		250V	2A-5A	26-24	2,000			500h
Standard	•				•		B	2-12	•		250-600V	2A-10A 5A+2A 10A+5A	26-20	2,000			500h
Middle	•	•			•		P	2-18	•	•	250-600V	2A-20A 5A+2A 10A+2A 10A+5A	24-14	2,000			500h
Large	•				•		B	2-22	•	•	250-600V	2A-20A 20A+2A 20A+5A	26-16	2,000			500h
Macro	•						P	31	•		200V	5A	26	2,000			500h
PLD			•				P	2-4	•		250V	5A	26-20	2,000			500h
MAB	•						P	4	•		250V	10A	20	2,000			500h
GBD		•					P	8	•		250V	10A+5A	20-24	2,000			500h
X-LOK Series																	
Mini / LED			•				B	2-33	•		30-630V	0.5A-16A	32-14	1,000	•	•	1000h
Standard			•				P	2-8	•		300-600V	5A-10A 10A+5A	26-16	1,000			1000h
Middle			•				P	2-12	•	•	300-600V	5A-20A 10A+5A	26-12	1,000			1000h
Large			•				B	2-100	•	•	60V (0.5A) 300-600V	0.5A-20A 20A+5A 50A 50A+5A	32-6	1,000			1000h
Macro			•				P	4-31	•	•	300-600V	5A 50A+5A 80A+5A	22-2	1,000			1000h
M Series																	
M5					•		M	3-6	•		60V	1A	28-26	1,000			48h
Guided M8 / LED					•	Snap-in	B	2-6	•		30-60V	2A-4A 3A+1.5A	24-22	1,000			48h
M8 / LED					•	Snap-in	B	3-13	•		30-60V	0.5A-4A	32-22	1,000			48h
M10.5					•		M	2-5	•		30V	2A	24	1,000			48h
M12 A / LED				•	•		B	3-28	•		30-250V	0.5A-4A	30-22	1,000	•		48h
M12 B / LED				•	•		B	5	•		60V	4A	26-22	1,000			48h
M12 D / LED				•	•		B	4	•		250V	4A	26-22	1,000	•		48h
M12 I				•	•		B	5	•		60V	4A	22	1,000			48h
M12 K / LED				•	•		B	3-5	•		630V	12A, 16A	14	1,000			48h
M12 L / LED				•	•		B	2-5	•		63V	16A	14	1,000			48h
M12 M / LED				•	•		B	3-6	•		630V	8A	16	1,000			48h
M12 S / LED				•	•		B	3-4	•		630V	12A	16	1,000			48h
M12 T / LED				•	•		B	2-4	•		63V	12A	16	1,000			48h
M12 X				•	•		M	8	•		30-60V	0.5A	26	1,000		•	48h
M12 Y				•	•		B	8	•		60V	0.5A / 6A	20, 26	1,000			48h
M23					•		M	6	•		600V	28A	14-12	1,000			48h

Remarks:

Materials: P (Plastic), M (Metal), B (Both)

Product Selection Guide

	(R0) Receptacle						(FI) Field Installable						OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Standard / Compliant	Certifications	Operating Temperature & IP Rating
	Solder	Crimp	SMT	PCB 180	PCB 90	RW	RC	Solder	Crimp	Screw In	Push In	IDC									
Ceres Series																					
Mini	•			•			•	•					•	•	•	(2)	•	•			
Standard	•			•	•		•	•	•				•	•	•	(2)	•	•		UL1977	
Middle	•			•			•	•	•				•	•	•	(2)		•		UL1977	
Large	•			•				•	•	•			•	•	•	(2)	•	•		UL1977	
Macro	•			•									•	•	•	(2)		•		UL1977	
PLD	•							•					•	•	•	(2)		•		◦ FI: -40°C - 105°C, IP67 (Mated)	
MAB													•	•	•	(2)		•			
GBD													•	•	•	(2)		•			
X-LOK Series																					
Mini / LED	•			•	•			•	•	•	•		•	•	•	(2)	•	•			
Standard	•			•				•	•	•	•		•	•	•	(2)	•	•			
Middle	•			•				•	•	•	•		•	•	•	(2)		•		CSA, UL1977, UL2238, UL50e	
Large	•			•				•	•	•	•		•	•	•	(2)	•	•			
Macro	•	•		•					•	•			•	•	•	(2)		•			
M Series																					
M5	•			•	•	•							•	•	•	(1)		•	IEC 61076-2-105		
Guided M8 / LED	•		•	•	•	•		•	•	•		•	•	•	•	(1)	•	•			
M8 / LED	•		•	•	•	•		•	•	•		•	•	•	•	(1)	•	•	IEC 61076-2-104	UL1977, UL2238	
M10.5	•					•							•	•	94-HB	(1)		•			
M12 A / LED	•		•	•	•	•		•	•	•	•	•	•	•	•	(1)	•	•	IEC 61076-2-101	UL1977, UL2238, UL1863	
M12 B / LED	•		•	•	•	•		•	•	•	•	•	•	•	•	(1)	•	•	IEC 61076-2-101	UL1977, UL2238	
M12 D / LED	•		•	•	•	•		•	•	•	•	•	•	•	•	(1)	•	•	IEC 61076-2-101	UL1977, UL2238, UL1863	
M12 I	•			•				•					•	•	94-HB	(1)		•		◦ RW: -20°C ~ 85°C, IP67 (Mated / Unmated), IP68 (Unmated), IP69K (Mated)	
M12 K / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111		UL1977, UL2237
M12 L / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111		UL1977, UL2238
M12 M / LED	•		•	•	•	•		•	•	•			•	•	•	(1)	•	•	IEC 61076-2-111		
M12 S / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111	UL1977, UL2237	
M12 T / LED	•		•	•	•	•		•	•	•			•	•	•	(1)		•	IEC 61076-2-111	UL1977, UL2238	
M12 X			•	•	•	•		•	•			•	•	•	•	(1)	•	•	IEC 61076-2-109	UL1863	
M12 Y				•	•	•		•					•	•	•	(1)	•	•	IEC 61076-2-109	UL1863	
M23		•							•				•	•	•	(1)	•	•			

Remarks:
Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires), **RC** (Receptacle With Overmolded Cable), **OC** (Overmolded With Cables), **FI** (Field Installable)
Vibration: **(1)** 10-500 Hz @Amplitude 0.35mm; **(2)** 10-55Hz @Amplitude 1.52mm
Operation Temperature & IP Rating: **R0** (Receptacle), **RW** (Receptacle With Wires), **OC** (Overmolded With Cables), **FI** (Field Installable)

Product Selection Guide

Circular (FLOS, Power, RBL)

	Mating Style						Materials	No. of Contacts	Contacts		Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)	(R0) Receptacle		
	2 Points Lock	3 Points Lock	Push Lock	Push Pull	Screw Thread	Others			Gold Plated	Silver Plated						Solder	Crimp	Screw In
FLOS Series																		
B				•			M	2-32	•		160-700V	1.5A-25A	28-16	5,000	144h	•		
K				•			M	2-32	•		160-700V	1.5A-25A	28-16	5,000	144h	•		
K (FLOS+)				•			M	2-32	•		160-700V	1.5A-25A	28-16	5,000	1000h	•		
C				•			M	2-19	•		160-700V	1.5A-20A	28-16	3,000	144h	•		
S				•			M	1	•		260-1000V	15A	28-16	3,000	144h	•		
Y				•		Break Away	M	2-26	•		260-1000V	5A-14A	28-16	5,000	96h	•		
P				•			P	2-14	•		200-400V	2A-10A	28-16	2,000		•		
N				•			M	2-19	•		200-800V	5A-22A	28-16	3,000	144h	•		
Power Series																		
PWE					•		P	5-7	•		277V	8A	20-17	500	500h	•		
PWF					•		P	2-4	•		277V	12A	18-15	500	500h	•		
PWG					•		P	4	•		277V	16A	18-14	500	500h			•
PWC	•	•					P	3	•		277V	20A	14-12	500	500h	•		
PWCU	•	•					P	4 & 12	•		277V	20A+2A	14-12, 24-22	500	500h	•		
PWH		•			•		P	3, 5	•		660V (AC) 1000V (DC)	25A	12	500	500h		•	•
PWL		•					P	3	•		300V	30A	14-8	500	500h			•
PWM		•					P	2	•		600V	50A	9-8	500	720h	•		
PWMU		•					P	2+2, 2+4	•		600V	50A+2A	9-8, 22-20	500	720h	•		
PWN		•					P	2	•		600V	70A	8-6	500	720h	•		
PWNU		•					P	2+2, 2+4	•		600V	70A + 2A	8-6, 22-20	500	720h	•		
PWP		•					P	2 & 3	•		600V	80A	4	500	720h		•	
PWPD		•					P	2+2, 2+4, 3+2, 3+4	•		600V	80A+5A	4, 20	500	720h		•	
PWX		•					P	9 (30A) 14 (30A+5A) 5 (50A) 12 (50A+5A) 4 (80A) 7 (80A+5A)		•	300-600V	30A, 30A+5A 50A, 50A+5A 80A, 80A+5A	22-20, 14-8, 9-8, 4	500	720h		•	
RBL Series																		
Middle			With Latch				P	2-9	•		300V	5A-10A 10A+5A	20-16	250	48h			
Large			With Latch				P	2-18	•		300V	5A-20A 20A+5A	24-12	250	48h			

Remarks:

Materials: P (Plastic), M (Metal)

Assemble Style: R0 (Receptacle)

Product Selection Guide

	(R0) Receptacle		RW	(FI) Field Installable			OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
	PCB 180	PCB 90		Solder	Crimp	Screw In									
FLOS Series															
B	•	•		•	•		•		•	(2)	•	•		IP50 (Mated)	◦ R0 : -40°C - 125°C ◦ OC : -20°C - 85°C ◦ FI : -40°C - 125°C
K	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
K (FLOS+)	•	•		•	•		•		•	(2)	•	•		R0 : IP68 (Unmated) OC : IP68 (Mated) FI : IP68 (Mated)	
C	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
S	•	•		•	•		•		•	(2)	•	•		IP50 (Mated)	
Y	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
P	•	•		•	•		•	•	•	(2)		•		IP50 / IP66 (Mated)	
N	•	•		•	•		•		•	(2)	•	•		IP68 (Mated)	
Power Series															
PWE				•			•		94-HB	(2)		•	UL1977	IP67 / IP68	◦ R0 : -40°C - 105°C ◦ OC : -20°C ~ 80°C ◦ FI : -40°C ~ 105°C
PWF				•			•		94-HB	(2)		•	UL1977, TUV	IP67 / IP68	
PWG						•	•		•	(2)		•	UL1977	IP67 / IP68	
PWC				•		•	•	•	•	(2)		•	UL1977, TUV/UL2238	IP67 / IP68	
PWCU				•			•	•	•	(2)		•	UL1977, TUV	IP67 / IP68	
PWH					•	•	•	•	•	(2)		•	UL1977, UL6703A, TUV	IP67 / IP68	
PWL				•		•	•	•	•	(2)		•	UL2238/UL1977	IP67 / IP68	
PWM						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWMI						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWNI						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWNU						•	•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWP					•		•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWPD					•		•	•	•	(2)		•	UL1977	IP67 (Mated)	
PWX					•		•	•	•			•	UL1977	IP69K (Mated)	
RBL Series															
Middle			•		•		•	•	•	(2)		•	UL1977	RW : IP68 (Unmated) OC : IP68 (Mated) FI : IP67 (Mated)	◦ RW : -40°C ~ 105°C ◦ OC : -20°C ~ 80°C, Data: -20°C ~ 80°C Power: -20°C ~ 105°C Hybrid: -40°C ~ 105°C
Large			•		•		•	•	•	(2)		•			◦ FI : -40°C ~ 105°C

Remarks:

Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires), **OC** (Overmolded With Cables), **FI** (Field Installable)

Vibration: (2) 10-55Hz @Amplitude 1.52mm

Operation Temperature & IP Rating: **R0** (Receptacle), **RW** (Receptacle With Wires), **OC** (Overmolded With Cables), **FI** (Field Installable)

Product Selection Guide

Circular (HS-Lok, NMEA 2000, Mini, Heavy Duty Shielded)

	Mating Style		Materials	No. of Contacs	Contacts Gold Plated	Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)	(R0) Receptacle			
	Push Pull	Screw Thread									Solder	PCB 180	PCB 90	RW
HS-Lok Series														
Q8	•		B	2-6	•	100V (DC), 300V, 300V (AC) + 100V (DC)	2A 5A 5A+2A	24-20	2,000	500h	•			
NMEA 2000														
Lite (Micro)	•	•	B	5	•	60V	4A	16*1P+20*1P 18*1P+22*1P 22*1P+24*1P	Push Pull 500, Screw Thread 1,000	Metal: 48h Plastic: 1,000h	•	•	•	•
Heavy (Mini)		•	M	4-5	•	600V	8A	15*1P+18*1P 16*1P+18*1P	1,000		•	•		
7/8" Mini														
7/8" Mini		•	M	2, 2+PE, 4, 4+PE, 6	•	600V	8A-13A	16	1,000	48h	•	•		•
Heavy Duty Shielded														
Heavy Duty Shielded		*	M	2-14	•	50-300V	5A-40A	22-8	1,000	48h / 500h	•			

Remarks:

Materials: **M** (Metal), **B** (Both)

Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires)

Product Selection Guide

	(FI) Field Installable				OC	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
	Solder	Crimp	Screw In	Push In									
HS-Lok Series													
Q8	•				•	•	(2)			•	UL2238, UL50e	R0: IP68 (Unmated) OC: IP68 (Mated) FI: IP68 (Mated)	◦ R0: -40°C - 105°C ◦ OC: -40°C - 105°C ◦ FI: -40°C - 105°C
NMEA 2000													
Lite (Micro)			•	•	•	•	(1)	•	•	•	NMEA 2000	R0: IP68 (Unmated) RW: IP68 (Unmated) OC: IP68 (Mated)	◦ R0: -40°C - 105°C ◦ RW: -20°C - 85°C ◦ OC: -20°C - 85°C
Heavy (Mini)			•	•	•		94-HB	(1)	•	•	NMEA 2000	FI: IP67 (Mated)	◦ FI: -40°C - 105°C
7/8" Mini													
7/8" Mini	•	•	•		•	•	(1)			•		R0: IP68 (Unmated) RW: IP68 (Unmated) OC: IP68 (Mated) FI: IP67 (Mated)	◦ R0: -40°C - 105°C ◦ OC: -40°C - 105°C ◦ FI: -40°C - 105°C
Heavy Duty Shielded													
Heavy Duty Shielded	•				•	•	94-HB	(1)	•	•		R0: IP68 (Unmated) OC: IP68 (Mated) FI: IP68 (Mated)	◦ R0: -40°C - 105°C ◦ RW: -20°C - 85°C ◦ OC: -20°C - 85°C ◦ FI: -40°C - 105°C

Remarks:

Assemble Style: **OC** (Overmolded With Cables), **FI** (Field Installable)

Vibration: **(1)** 10-500 Hz @Amplitude 0.35mm; **(2)** 10-55Hz @Amplitude 1.52mm

Operation Temperature & IP Rating: **R0** (Receptacle), **RW** (Receptacle With Wires), **OC** (Overmolded With Cables), **FI** (Field Installable)

Product Selection Guide

Other IO (RJ45, USB, D-Sub, SSL, HDMI, DVI)

	Mating Style					Materials	No. of Contacts	Gold Plated	Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	High Speed		
	2 Points Lock	3 Points Lock	Push Lock	Screw Thread	Others								Cat. 5e	Cat. 6A	USB 2.0
RJ45 Series															
Middle		•		•		B	8		44-57V (DC)	Max. 1.5A	Cat. 6A: 26 / Cat. 5e: 24	750	•	•	
Large / I-Adaptor	•	•		•		P	8		44-57V (DC)	Max. 1.5A	24	750	•		
ODVA	•					B	8		44-57V (DC)	Max. 1.5A	Cat. 6A: 26 / Cat. 5e: 24	750	•	•	
Self-Closing Cover						P	8		44-57V (DC)	Max. 1.5A		750	•	•	
USB Series															
Mini USB Type B				•		P		•	30V	1.5A	28*1P + 28*3C	5,000			•
Type A	•			•		B		•	30V	USB 2.0: 1.5A USB 3.2 Gen1: 1A	28*1P + 24*2C	1,500			•
Type B	•			•		B		•	30V	USB 2.0: 1.5A	28*1P + 24*2C	1,500			•
Micro USB Swift						M		•	30V (AC) 5V (DC)	1 & 5 Pin: 1.8A 2, 3 & 4 Pin: 1A		10,000			•
Micro USB Swift-MU					Snap-in	P		•	30V (AC) 5V (DC)	1 & 5 Pin: 1.8A 2, 3 & 4 Pin: 1A	28	10,000			•
Type C Swift-LP						M		•	30V (DC)	Up To 5A	32*1P + 24*1C + 28*1D	10,000			
Type C Swift-LA					Snap-in	P		•	30V (DC)	Up To 3A	32*1P + 24*1C + 28*1D	10,000			•
Type C Swift-GG				•		B		•	30V (DC)	Up To 5A	32*1P + 24*1C + 28*1D	10,000			
Type C Swift-XL			•			P		•	30V (DC)	Up To 3A	32*1P + 24*1C + 28*1D	10,000			
D-SUB Series															
Standard				•	Automated Latch	M	9, 15, 25, 37, 50*	•	125V (DC)	5A	24	500			
High Density				•	Automated Latch	M	15, 26, 44, 62*, 78*	•	125V (DC)	2A	26	500			
SSL Series															
SSL1.1			•			P	2-6	•	100V	3A	22	100			
SSL1.2			•			P	2-4	•	Wire: 250V Flat Cable: 300V	5A	22-18	Wire: 30 Flat Cable: 100			
HDMI Series															
Circular				•		P	19	•	30V (AC)	0.5A	26	500			
Rectangular			•		With Latch	P	19	•	30V (AC)	0.5A	26	500			
Mini-HDMI				•		P	19	•	30V (AC)	0.5A	30	500			
DVI Series															
DDD						M	25	•	40V (AC)	1.5A	28	100			
DDS						M	19	•	40V (AC)	1.5A	28	100			
DID						M	29	•	40V (AC)	1.5A	28	100			
DIS						M	23	•	40V (AC)	1.5A	28	100			

Remarks:
Materials: P (Plastic), M (Metal), B (Both)

Product Selection Guide

	High Speed		Salt Spray (Connector, Mated)	R0	RW	RP	OC	FI	UV Resistant	UL 94V-0	Vibration	EMI Option	ROHS 2.0 & REACH	Standard / Compliant / Certifications	Operating Temperature & IP Rating
	USB 3.2 Gen1	USB 3.2 Gen2													
RJ45 Series															
Middle			48h	PCB 90 & 180, Jack 90 & 180		•	•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ R0 : -40°C - 105°C, IP67 (Unmated & Mated)
Large / I-Adaptor			48h	PCB180, Jack 90 & 180		•	•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ RP : -20°C - 85°C, IP67 (Unmated & Mated)
ODVA			48h	Jack 180		•	•	•	•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	◦ OC : -20°C - 85°C, IP67 (Mated) ◦ FI : -40°C - 105°C, IP67 (Mated)
Self-Closing Cover			48h	•					•	•	(2)	•	•	TIA/EIA-568, IEC 60603-7	-40°C - 105°C, IP67 (Unmated)
USB Series															
Mini USB Type B			48h	•	•		•	•		94V-HB	(2)	•	•		◦ R0 : -40°C - 105°C, IP67 (Unmated)
Type A	•		48h	Type 1 & 2, Jack, PCB 180	•		•	Solder		•	(2)	•	•		◦ RW : -20°C - 85°C, IP67 (Unmated)
Type B	•		48h	Type 1 & 2, Jack, PCB 180	•		•	Solder		•	(2)	•	•		◦ OC : -20°C - 85°C, IP67P (Mated) ◦ FI : -40°C - 105°C, IP67 (Mated)
Micro USB Swift			48h	•						•	(2)	•	•		-30°C - 80°C, IP67/IP68 (Unmated)
Micro USB Swift-MU			48h				•			•	(2)	•	•		-40°C - 80°C, IP67 (Mated)
Type C Swift-LP		•	48h	•						•	(2)	•	•		-40°C - 85°C, IP67 (Unmated)
Type C Swift-LA	•		48h	•			•			•	(2)	•	•		◦ R0 : -40°C - 85°C, IP68 (Unmated) ◦ OC : -20°C - 85°C, IP67 (Mated)
Type C Swift-GG	•	•	48h	•			•			•	(2)	•	•		◦ R0 : -40°C - 85°C, IP67 (Unmated) ◦ OC : -20°C - 85°C, IP67 (Mated)
Type C Swift-XL	•		48h				•			•	(2)	•	•		◦ OC : -20°C - 85°C, IP68 (Mated)
D-SUB Series															
Standard			8h	Solder, PCB 90& 180			•	Solder, Crimp			(2)	•	•		◦ R0 : -40°C - 105°C, IP68 (Unmated)
High Density			8h	Solder, PCB 90& 180			•	Solder, Crimp			(2)	•	•		◦ OC : -20°C - 85°C, IP67P (Mated) ◦ FI : -40°C - 105°C, IP67 (Mated)
SSL Series															
SSL1.1				•			•			•	(2)		•	CSA C22.2, UL1977	-40°C - 105°C, Non-IP
SSL1.2				•			•	•	•	•	(2)		•	CSA C22.2, UL1977, cUL UL2238+UL50e	-40°C - 105°C, IP68 (Mated)
HDMI Series															
Circular			48h	•			•			94V-HB	(2)	•	•		◦ R0 : -20°C - 85°C, IP67 (Unmated)
Rectangular			48h	•			•			94V-1	(2)	•	•		◦ OC : -20°C - 85°C, IP67P (Mated)
Mini-HDMI			48h	•			•			•	(2)	•	•		
DVI Series															
DDD			8h	•			•				(2)		•		
DDS			8h	•			•				(2)		•		◦ R0 : -40°C - 105°C, IP68 (Unmated)
DID			8h	•			•				(2)		•		◦ OC : -20°C - 85°C, IP67P (Mated)
DIS			8h	•			•				(2)		•		

Remarks:
Assemble Style: **R0** (Receptacle), **RW** (Receptacle With Wires), **RP** (Receptacle With Pigtail), **OC** (Overmolded With Cables), **FI** (Field Installable)
Vibration: **(2)** 10-55Hz @Amplitude 1.52mm
Operation Temperature & IP Rating: **R0** (Receptacle), **RW** (Receptacle With Wires), **RP** (Receptacle With Pigtail), **OC** (Overmolded With Cables), **FI** (Field Installable)

Product Selection Guide

Other IO (Fiber, RF)

	Mating Style		Materials	No. of Contacts	Gold Plated	Operating Voltage (AC/DC)	Applicable Wires (AWG)	Mating Cycles (Pin Contact)	Salt Spray (Connector, Mated)	R0
	3 Points Lock	Screw Thread								
Fiber Optic Series										
LC	•								48h	•
SC	•								48h	•
RF Series										
SMA Type		•	M	1	•	335 Volts RMS At Sea Level	1.13mm, 1.32mm, 1.37mm, RG178	500	48h	•
N Type		•	M	1	•	1,000 Volts RMS At Sea Level	1.13mm, 1.32mm, 1.37mm, RG142, RG178, G58 A/U	500	48h	•

Other (ZConnect, Cable Joiner, Cable Gland, Pressure Relief Vent, LED)

	Mating Style			Materials	No. of Contacts	Contacts				Operating Voltage (AC/DC)	Nominal Current	Applicable Wires (AWG)	Salt Spray (Connector, Mated)
	Push Lock With Latch	Screw Thread	Others			Gold Plated	Nickel Plated	Thermo plastic	SUS316L				
ZConnect Series													
FPC / FFC / WTB			Quick Plug	B	46, 36, 20, 18, 12	•				120V	1A		48h
Cable Joiner Series													
M20		•		P	None, 4	•				450V (Non- UL) 600V (UL)	10A	22-16	
M32	•			P	None, 4	•					15A-30A	16-10	
FICX I Tube (11)		•		P	2-5		•				16A-30A	20-12	
FICX I Tube (12)		•		P	2-5		•				8A-20A	18-12	
FICX XI Tube (13)		•		P	2-5		•				8A-20A	18-12	
FICX T Tube (T2)		•		P	2-5		•				10A-20A	20-12	
Cable Gland Series													
Cable Gland		•		B									
Pressure Relief Vent													
M6 Plastic		•		P				•					
M12 Snap-in		•		P				•					
M12 Stainless		•		M					•				
M12 Plastic		•	P				•					1,000h	
M12 Metal		•	M				•					48h	
LED Light Guide													
Ø3mm				B				•		4V			
Ø5mm				M				•		4V			

Remarks:

Materials: P (Plastic), M (Metal), B (Both)

Assemble Style: R0 (Receptacle)

Product Selection Guide

	FI	UV Resistant	UL 94V-0	EMI Option	ROHS 2.0 & REACH	Standard / Compliant / Certifications	Operating Temperature & IP Rating
Fiber Optic Series							
LC	•	•	•		•		-40°C - 105°C, IP67 (Mated)
SC	•	•	•		•		-40°C - 105°C, IP67 (Mated)
RF Series							
SMA Type				•	•	MIL-C-39012	-40°C - 105°C, IP68 (Unmated)
N Type				•	•	MIL-C-39012	-40°C - 105°C, IP68 (Unmated)

	Receptacle	Field Installable	UV Resistant	UL 94V-0	Vibration	ROHS 2.0 & REACH	Certifications	IP Rating	Operating Temperature
ZConnect Series									
FPC / FFC / WTB				•		•			-40°C - 110°C, Non-IP
Cable Joiner Series									
M20		•	•	94V-2		•		IP67	-40°C - 105°C
M32		•	•	•		•	UL6703A	IP67	-40°C - 105°C
FICX I Tube (11)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
FICX I Tube (12)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
FICX XI Tube (13)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
FICX T Tube (T2)		•	•	•		•	CSA, UL2238	IP68 (Mated)	-40°C - 105°C
Cable Gland Series									
Cable Gland	•	•		94V-0 94V-2	(2)	•		IP67 (Mated) IP68 (Mated)	• RO : -20°C - 105°C • FI : -20°C - 105°C
Pressure Relief Vent									
M6 Plastic	•		•	•		•		IP66, IP68	-40°C - 125°C
M12 Snap-in	•		•	•		•		IP68, IP69K	-40°C - 125°C
M12 Stainless	•		•	•		•		IP68, IP69K	-40°C - 125°C
M12 Plastic	•		•	•		•		IP68, IP69K	-40°C - 125°C
M12 Metal	•		•	•		•		IP68, IP69K	-40°C - 125°C
LED Light Guide									
Ø3mm	•							IP67	• Red & Green : -30°C - 80°C • Others : -40°C - 80°C
Ø5mm	•							IP67	• Red & Green : -30°C - 80°C • Others : -40°C - 80°C

Remarks:

Assemble Style: FI (Field Installable)

Vibration: (2) 10-55Hz @Amplitude 1.52mm

Operation Temperature & IP Rating: RO (Receptacle), FI (Field Installable)

Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	HS-Lok	NMEA 2000	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Fiber Optics	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub
LED Lighting																							
Architectural Lighting	•	•	•		•	•	•		•		•	•					•		•	•	•		
Outdoor LED Displays	•	•	•	•	•	•	•				•	•	•				•		•	•	•		
Outdoor Signage	•	•			•	•			•		•	•	•				•		•	•	•		
Entertainment Lighting & Systems	•	•			•	•	•		•		•	•	•				•		•	•	•		
Smart City, Street Lighting	•	•			•	•	•		•		•	•	•				•		•	•	•		
Tunnel Lighting	•	•	•		•	•			•		•	•	•				•		•	•	•		
Parking Lighting	•	•			•	•	•		•		•	•	•				•		•	•	•		
Cruise & Shipyards Lighting	•	•	•		•	•		•	•		•	•	•				•		•	•	•		
High Speed Train & EV Bus	•	•			•	•	•		•	•	•	•	•				•		•	•	•		
Commercial Lighting	•	•	•		•	•	•		•		•	•	•				•		•	•	•		
Refrigeration Lighting	•	•	•		•	•	•		•		•	•	•				•		•	•	•		
Horticulture Lighting	•	•	•		•	•			•		•	•	•				•		•	•	•		
Warehouse Lighting	•	•			•	•			•		•	•	•				•		•	•	•		
Emergency Lighting	•	•	•		•	•	•		•		•	•	•				•		•	•	•		
UV and Sanitary Lighting	•	•	•		•	•	•		•		•	•	•				•		•	•	•		
Li-Fi	•	•			•	•					•	•	•				•	•	•	•	•		
Hospital Surgical Lighting & Room	•	•	•		•	•	•		•		•	•	•				•		•	•	•		
ATEX Lighting	•	•			•	•	•					•	•				•						
Underwater / Submerged Lighting	•	•			•	•							•				•				•		
Marine																							
Multi-FunctionDisplay	•	•	•	•	•	•		•	•	•	•	•			•	•		•			•	•	•
Outboard Motors	•	•	•		•	•		•	•	•							•			•			
Bilge Pump	•	•	•		•	•		•	•	•							•			•			
Heater	•	•	•		•	•	•	•	•	•	•						•		•	•	•		
HVAC	•	•	•		•	•	•	•	•	•	•						•		•	•	•		
(Heating Ventilation Air Conditioning)	•	•	•		•	•		•	•	•							•						
Fridge	•	•	•		•	•	•	•	•	•							•						
Docking System	•	•	•		•	•		•	•	•							•			•			
Windlass	•	•	•		•	•		•	•	•							•			•			
Sensors	•	•	•		•	•		•	•	•							•						
RADAR	•	•	•		•	•		•	•	•	•	•					•	•					
Antenna	•	•	•		•	•	•	•	•	•							•	•					
USB Charger	•	•	•		•	•	•	•	•	•		•					•		•				
Audio System	•	•	•		•	•	•	•	•	•	•	•		•			•		•	•	•		
Lighting System	•	•	•		•	•	•	•	•	•	•	•	•	•			•		•	•	•		•
CCTV	•	•	•		•	•	•	•	•	•	•	•		•	•		•						
Power Controller	•	•	•		•	•		•	•	•							•		•	•	•		•
Autopilot System	•	•	•		•	•		•	•	•				•	•		•	•			•		•
Automatic Identification System	•	•	•		•	•	•	•	•	•	•			•	•		•	•			•		•
GPS, Beacon & Lifebuoy	•	•	•		•	•	•	•	•	•	•	•					•	•					
Sonar / Transducer	•	•	•					•	•	•							•						
Fish-Finders	•	•	•					•	•	•	•	•					•						
Chartplotter	•	•	•				•	•	•	•	•	•		•	•		•						•
Sailing Instruments	•	•	•					•	•	•	•	•		•	•		•				•		
Shipyards & Cruise	•	•	•				•	•	•	•	•	•		•	•		•				•		•
Broadband Wireless Access																							
General Small Cells	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
RRH (Remote Radio Head)	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Wireless Mobile Backhaul	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•		
High Capacity Mobile Subscriber Unit	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor Base Station Unit	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor LTE	•	•			•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor AP	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Subscriber Station	•	•			•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Outdoor Wireless Mesh Router	•	•	•		•	•	•		•	•	•	•				•	•	•	•	•	•	•	•
Base Station Power Supply	•	•		•	•	•	•		•	•						•	•	•	•	•	•	•	•
Communication System														•			•						

Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	HS-Lok	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Fiber Optics	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub
Industrial Automation																						
Robotic Arm			•	•			•	•	•							•						
Industrial Server / Network	•	•	•	•	•		•	•	•	•	•		•	•	•	•	•			•	•	•
Industrial Forklifts (Truck)	•	•	•	•	•	•	•	•	•	•	•		•	•		•			•	•		•
AVI (Automatic visual inspection)	•	•	•	•			•	•	•							•						
Data Communication System	•	•	•	•	•		•	•	•	•	•		•	•		•	•			•	•	•
Industrial Control Center	•	•	•	•	•		•	•	•	•	•		•	•		•				•	•	•
Packaging Center	•	•	•	•			•	•	•							•						
Conveyors	•	•	•	•			•	•	•							•						
Sensors			•					•	•							•						
Power Distribution	•	•	•	•	•			•	•							•						
Actuators	•	•	•					•	•							•						
Motor Drives	•	•	•		•	•		•	•							•						
Industrial PC & Displays	•	•	•	•	•		•	•	•	•	•		•	•		•	•			•	•	•
Machine Tools	•	•	•	•	•			•	•							•						
Switches		•	•	•				•	•	•	•					•						•
Production Equipment	•	•	•	•	•	•	•	•	•	•	•					•				•	•	•
Renewable Energy																						
PV / DC Inverter	•	•	•		•	•		•	•	•						•		•	•	•	•	
Micro Inverter						•				•						•			•	•	•	
CSP & CPV	•	•	•		•	•		•	•							•			•	•	•	
Heliostat	•	•	•		•	•										•			•	•	•	
PV Trackers	•	•	•		•	•		•	•							•			•	•	•	
PV ICS (Integrated Control Systems)					•	•		•	•	•						•			•		•	
Portable Energy	•	•	•		•	•	•	•	•	•	•					•						
Communication System	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•		•	•	•	•
PDC (Power Distribution Control)	•	•	•	•	•	•		•	•	•						•	•		•	•	•	•
Wind Turbine	•	•	•	•	•	•		•	•	•	•					•			•	•	•	•
Energy Storage System	•	•	•		•	•		•	•	•						•			•	•	•	
Tidal Power Generation System	•	•	•	•	•	•		•	•	•						•			•	•	•	•
Heavy Equipment																						
Electronic Toll System	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•		•	•		•
Automotive Diagnostics	•	•	•	•	•		•	•	•	•	•	•	•	•		•	•				•	•
Agriculture Electronic Equipment	•	•	•	•	•	•		•	•	•	•		•	•		•	•		•	•		•
Lidar & Radar	•	•	•	•				•	•	•	•		•	•		•						
ADAS (Advanced Driver Assistance Systems)	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•		•	•		•
Telematics & Tracking	•	•	•		•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•
Camera & Monitoring	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•		•	•		•
Control System	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•		•	•		•
Display	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•		•	•		•
GPS System	•	•	•	•	•	•	•	•	•	•	•					•	•		•	•		
Lighting	•	•	•		•	•		•	•			•				•		•				
Measurement Systems	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•		•	•		•
Sensors		•	•	•				•	•							•						
Automated Meter Reading																						
Water Meter	•	•	•	•			•			•	•					•	•		•	•	•	
Electricity Meter	•	•	•	•			•			•	•					•	•		•	•	•	
Gas Meter	•	•	•	•			•			•	•					•	•		•	•	•	
Alarm System	•	•	•	•			•			•	•					•	•		•	•	•	
Military Drone	•	•	•	•			•									•	•		•	•	•	
Vehicle Tracking	•	•	•	•			•			•	•					•	•		•	•	•	
Telemetry	•	•	•	•			•			•	•					•	•		•	•	•	
Sewage	•	•	•	•	•	•	•			•	•					•	•		•	•	•	
Rugged IT																						
Telemetry		•	•	•			•			•						•	•		•	•		
Rugged & Military VR and AR		•	•	•			•				•					•	•		•			
Rugged Notebook				•						•	•		•	•		•	•					•
Night Vision Goggles			•	•			•				•					•						
Miniature Camera											•					•	•					
Rugged Tablet											•		•	•		•	•					
Communication Devices				•						•	•		•	•		•	•				•	•

Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	HS-Lok	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Zconnect	RF	Cable Gland	Vent	LED Light Guide	D-Sub
Test Equipments																				
Air Flow Measurement	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Gas Detectors	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Precision Surveying	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•		•
Earthquake Monitoring	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Humidity Measurement	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Leak Detectors	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Light Measuring	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Sound Measuring	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Water Measurement	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Weighing Devices	•	•	•	•	•	•	•	•	•	•	•				•	•	•	•		
Weigh Modules	•	•	•	•	•	•	•	•	•	•	•				•	•	•	•		
Heavy-duty Scales	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•		•
Floor Scales	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•		•
Wet Area Weighing	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Dosing Systems	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
In-Motion Weighing	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Borescope	•	•	•	•	•		•	•	•	•	•				•	•		•		
Image Measurement	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Timers / Timer Display	•	•	•	•	•		•	•	•	•	•				•	•		•		
Laser Marking System	•	•	•	•	•	•	•	•	•	•	•				•	•		•		
Digital Microscopes	•	•	•	•	•		•	•	•	•	•				•	•		•		
Hybrid Electric Vehicles																				
Electric Wheelchair	•	•	•	•	•	•	•	•	•						•					
Electrical and Electronic Speed Control	•	•	•	•	•	•	•	•	•						•					
Electrical and Electronic Brake System	•	•	•	•	•	•	•	•	•						•					
Throttle Controller	•	•	•	•	•	•	•	•	•						•					
Battery Module	•	•	•		•			•	•	•	•	•					•	•		
Motor Module	•	•	•	•				•	•	•	•	•			•		•	•		
Gear Shift Module	•	•	•					•	•	•	•	•			•			•		
Controller Unit	•	•	•	•				•	•	•	•	•			•			•		
Charge Plug / Inlet	•	•			•			•	•	•	•	•			•			•		
Charging Station	•	•			•			•	•	•	•	•			•			•		
Home Charge Platform	•	•			•			•	•	•	•	•			•			•		
Hoverboard	•	•	•	•	•			•	•	•	•	•			•			•		
Electric Scooter	•	•	•	•	•	•	•	•	•						•		•			
Railway Mass Transit																				
Infotainment Systems	•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•
In-Vehicle Information System	•	•	•	•	•	•	•	•	•	•	•		•	•	•		•	•	•	•
Indication Display	•	•	•	•	•		•	•	•	•	•		•	•	•			•		•
Navigation/GPS	•	•	•				•	•	•	•	•		•	•	•	•				•
HVAC (Heating Ventilation Air Conditioning)	•	•	•	•	•		•	•	•	•					•					
Fuel Leakage Detector	•	•	•	•	•	•	•	•	•	•	•				•					
Broadcasting System	•	•	•	•	•		•	•	•	•	•				•		•			
Vehicle Monitoring	•	•	•	•	•		•	•	•	•	•		•	•	•			•		•
Cleaning Control	•	•	•	•		•	•	•	•	•	•				•					
Speedometer	•	•	•	•	•		•	•	•	•					•					
Interior Lighting	•	•	•	•	•			•	•	•	•	•			•			•		
Mobile Devices																				
DRC (Drone Remote Controller)	•	•	•	•			•				•				•	•				
Altimeter	•	•	•	•			•				•				•	•				
Barcode Reader	•	•	•	•			•				•				•					
GPS Safety Guard		•					•				•				•	•				
Portable Lamp	•	•					•				•				•					
Gesture Measurement	•	•					•				•				•					
Wearables											•				•	•				

Served Markets & Applications

Applications	Ceres	X-Lok	M series	FLOS & FLOS+	Power	RBL	HS-Lok	7/8" Mini	Heavy Duty Shielded	RJ45	USB	SSL	HDMI	DVI	Zconnect	RF	Cable Joiner	Cable Gland	Vent	LED Light Guide	D-Sub
Transportation																					
Vehicle Camera	•	•	•	•		•	•				•		•		•			•	•		
Switch			•							•	•				•						•
Dome Vehicle Camera	•	•	•			•									•						
RFID Reader															•	•					
Bus GPS	•	•	•	•		•	•			•	•		•	•	•	•					
Display	•	•	•	•		•									•						
Outdoor Speaker	•	•	•	•		•									•						
Automotive Winches															•						
Vehicle Charger	•	•	•			•									•						
Wifi Router										•					•						
Fleet Management	•	•	•	•		•									•						
Digital Video Surveillance System	•	•	•	•	•	•		•	•	•					•					•	
Medical Equipment																					
Medical Displays				•	•					•	•		•	•	•				•		•
Mobile Nursing Carts	•	•			•	•	•	•	•						•			•	•		
Non-invasive Devices	•	•		•	•	•	•	•	•	•	•		•	•	•			•	•		•
Electrical Beds	•	•	•		•	•		•	•						•			•	•		
Charges	•	•			•	•		•	•						•			•	•		
Wheelchair Lift	•	•			•	•		•	•						•			•	•		
Wheelchair Stair Lift	•	•			•	•		•	•						•			•	•		
Rehabilitation System	•	•			•	•		•	•						•			•	•		
Automotive Diagnostics																					
Auto Crash Notification	•	•	•	•	•	•	•	•	•	•	•				•	•					•
Vehicle Tracking	•	•	•		•	•	•	•	•		•				•	•			•		
Vehicle Health Alert & Roadside Assistance	•	•	•	•	•	•	•	•	•	•	•				•	•					•
Remote Vehicle Diagnostics	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			•	•	•
UAV																					
Commercial Drone	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•
Military Drone	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•
Consumer Drone	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•		•	•	•	•
Lifts & Materials Handling																					
Forklift	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•	•	•	•
Industrial Lift	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•	•	•	•
Materials Handling	•	•	•	•	•	•	•	•	•	•	•		•	•	•			•	•	•	•
Remote Video Response Center																					
Encoders	•	•	•	•	•	•	•	•	•	•	•		•	•	•	•			•	•	•
Monitoring Station	•	•	•		•	•		•	•	•	•		•	•	•			•			•
CCTV/Dome/IP Camera	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•	•	•	•	•
Remote Control	•	•			•		•			•	•				•			•			
Junction Box	•	•			•					•	•		•	•	•			•	•		•
Automatic LPRS (License Plate Recognition System)	•	•	•	•	•	•		•	•	•	•		•	•	•	•	•	•	•	•	•
Fingerprint ID											•				•						
Alarm System	•	•	•	•	•					•	•		•	•	•	•	•	•	•	•	•
Sensor			•												•						
Autonomous																					
GPS	•	•	•	•			•	•	•	•	•		•	•	•	•					
Lidar	•	•	•	•			•	•	•	•	•		•		•			•	•		
Radar Sensors	•	•	•	•			•	•	•						•	•					
Video Cameras	•	•	•	•			•	•	•		•		•		•			•	•		
Central Computer	•	•	•	•			•	•	•	•	•		•		•						
Inertial Measurement Unit	•	•	•	•			•	•	•						•			•			
Inertial Navigation Systems	•	•	•	•			•	•	•						•	•		•			
Commercial Military																					
Tank				•																	
Aircraft				•																	
Warship				•																	
Dismounted Soldier				•																	
Software Defined Radios				•																	
Commercial Military				•											•						

We Are Amphenol LTW

Founded in 1993, Amphenol LTW is a leader in rugged and harsh environment interconnects with the largest array of I/O and products ranging from IP65 to IP69K. The company continually provides innovative interconnect solutions for ever-demanding environments and is proactively committed to contributing to a safer and greener environment. Amphenol LTW features interconnects for technologically advanced products with environmentally friendly results.



Amphenol LTW Technology & CNC Plant

- Headquarters: Taipei, Taiwan
- 150 Employees



Kunshan Amphenol Zhengri Electronics

- Kunshan, China
- 400 Employees



110+

Amphenol
Divisions



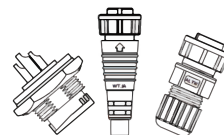
75+

Distribution
Channels



30+

Market
Applications



80,000+

Products

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more information

Scan here



Our Capabilities

Both factories located in Taiwan and China are ISO9001:2015, ISO14001:2015, and UL certified. Our Test Laboratory is certified by TAF and is a member of UL WTDP reliable partner. Wherever required, most of our products are TUV/VDE, UL/CSA certified. Thanks to our strict standards, we are able to contribute to your projects and design exactly what you need. From standard to customized products, Amphenol LTW has the right solutions for your applications.



Test Laboratory Accreditations Quality Assurance

International Certifications



Automated Production Line

Capability: Contacts, Parts, and Shells

Number of Automatic Machines: 11

Production Capacity : 125,000 pins per day
(24 hours)

Number of CNC Machines: 33

Production Capacity : 125,000 pins per day
(24 hours)



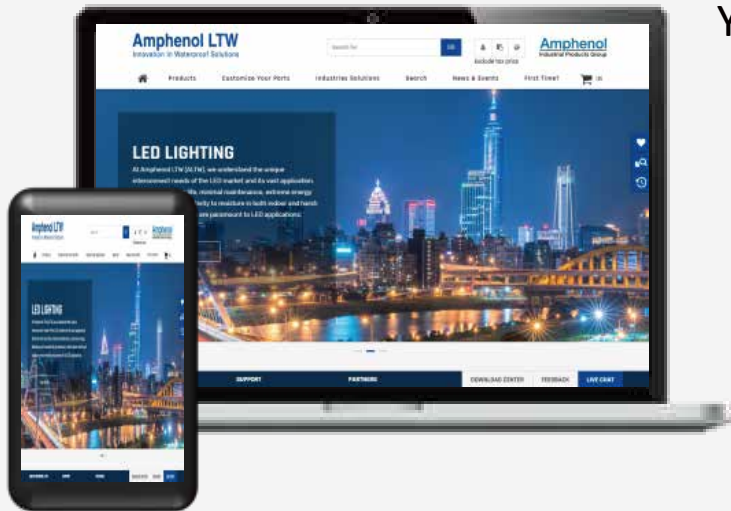
Kunshan Factory – Horizontal Injection Workshop

Molding Machines

Number of Machines: 17

Production Capacity : 3,400pcs/hr

Online Resources



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General Catalog

Find All Product Range



Catalogs by Series

All Market Applications

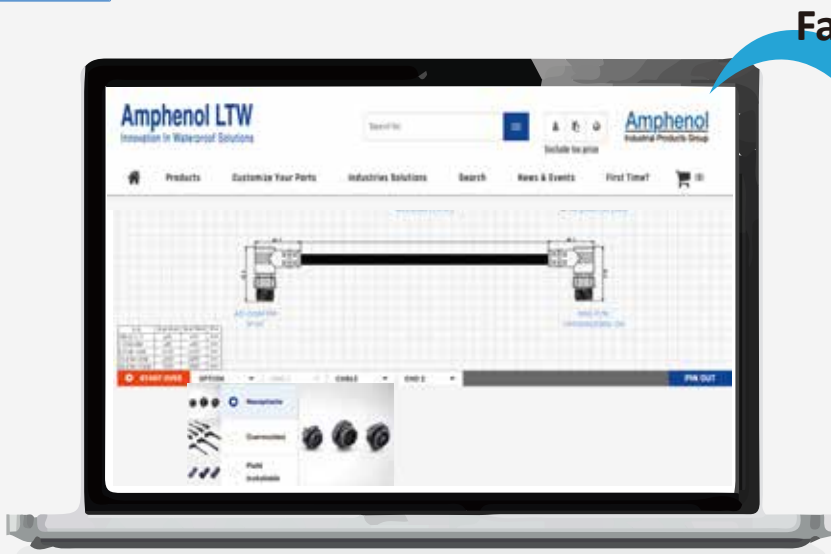


Market Flyer

Product Guidance



Customization Services



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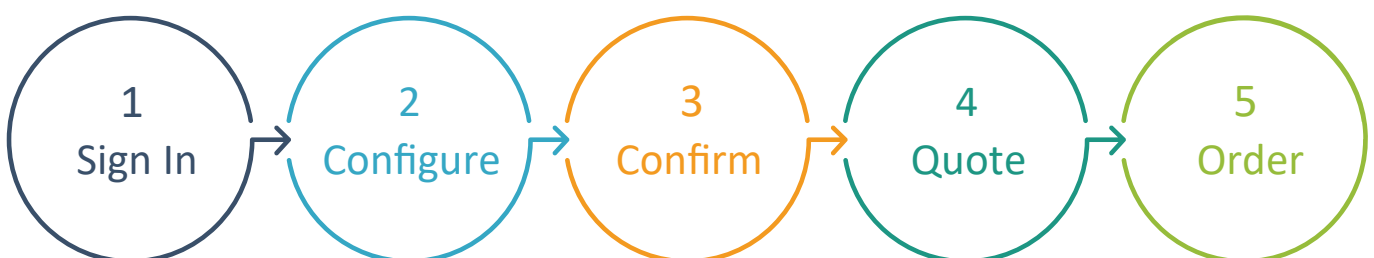
- ✓ Worldwide access 24/7
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- ✓ Online assistance (Live Chat)
- ✓ Instant drawing release
- ✓ Instant quote
- ✓ Order online

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NEW

3³ Single Pair Ethernet

Freedom of Choices and Budgets

3 Mechanical interfaces IP67 and above for industrial and ruggedized applications

3 Freedom of choices for your needs and requirements

3 Budgets, pay for what you need



Features

- » ALTW's proprietary SPE interface integrated in **M8 (G8) / M12 / FLOS+ / X-Lok**
- » Providing low power & simply networking on end-point sensors
- » Cost-effective, smaller & lighter than standard 4 pairs ethernet cable
- » Compatible 10/100/1000 base-T1 data rates as existing technologies **
- » Receptacle IP67 **UNMATED** waterproof, also available in double ended and field installable
- » Vibration resistance 20g (10 ~ 2,000 Hz)
- » Supports PoDL (Power Over Data Lines)

** 24~26 AWG Standard Length 15m

Part Number

X-Lok

A Size	AD-02BFFM-QL8P ¹⁰ (Cable)
	AD-02BMMM-QL8P ¹⁰ (Cable)
	AD-02PMMP-QC8001 (Receptacle)
	AD-02PMMS-QC8001 (Receptacle)

FLOS+

K Series	SLKC-S02FMMM-GCP-C ¹⁰ (Cable)
	SLKC-S02EEFP-GCP-001 (Receptacle)

M Series

M8	M8-02BFFM-SL7C ¹⁰ * (Cable)	M12	M12A-02BFFM-SL8C ¹⁰ (Cable)
	M8-02BMMM-SL7C ¹⁰ * (Cable)		M12A-02BMMM-SL8C ¹⁰ (Cable)
	M8-02PFFP-SF7001* (Receptacle)		M12A-02PFFP-SF8001 (Receptacle)
	M8-02PMMP-SF7001* (Receptacle)		M12A-02PMMP-SF8001 (Receptacle)
	M8-02PFFS-SF7001* (Receptacle)		
	M8-02PMMS-SF7001* (Receptacle)		
G8	8A-02BFFM-SL7C ¹⁰ * (Cable)		
	8A-02BMMM-SL7C ¹⁰ * (Cable)		
	8A-02PFFP-SF7001* (Receptacle)		
	8A-02PFFS-SF7001* (Receptacle)		
	8A-02MMP-SF7001 (Receptacle)		
	8A-02PMMS-SF7001 (Receptacle)		

* Upon Request

¹⁰ Cable Length: (01) 1M ~ (15) 15M.

Technical Support



Assistance



AIPG WeChat (ID: AIPG2020)
安费诺工业展品集团
微信公众号: AIPG2020



88677416888

Information



FAQ

Find answers to frequently asked questions at
<https://www.amphenolltw.com/>



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Marine

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- Autopilot System
- Bilge Pump
- Heater
- RADAR
- Windlass
- Outboard & Trolling Motors
- Chartplotter
- Docking System
- Fish-Finders
- Fridge & Refrigeration
- GPS, Beacon & Lifebuoy
- Lighting System
- Power Controller
- IP and Infrared CCTV & Cameras
- Sensors
- Shipyards & Cruise
- Sonar / Transducer
- USB Charger
- HVAC (Heating Ventilation Air Conditioning)
- Multi-Function Display
- Sailing Instruments



Broadband Wireless Access

- Outdoor AP
- Outdoor Base Station Unit
- Outdoor Repeater
- Outdoor Wireless Mesh Router
- RRU (Remote Radio Unit)
- General Small Cells
- Wireless Mobile Backhaul
- High Capacity Mobile Subscriber Unit



Renewable Energy

- Portable Energy
- PV Inverter
- PV Trackers
- Tidal Power Generation System
- Wind Turbine
- Communication System
- CSP & CPV
- DC Inverter
- Energy Storage System
- HelioStat
- PDC (Power Distribution Control)



Railway Mass Transit

- Interior Lighting
- In-Vehicle Information
- Navigation / GPS
- Speedometer
- Vehicle Monitoring
- Broadcasting System
- Cleaning Control
- Fuel Leakage Detector
- HVAC (Heating Ventilation Air Conditioning)
- Infotainment Systems
- Indication Display



Remote Video Response Center

- Alarm System
- Sensor
- CCTV / Dome / IP Camera
- Encoders
- Monitoring Station
- Automatic LPRS (License Plate Recognition System)



Autonomous

- Central Computer
- GPS
- Inertial Measurement Unit
- Inertial Navigation Systems
- Lidar
- Radar Sensors
- Video Cameras



Heavy Equipment

- Lidar & Radar
- Lighting
- Measurement Systems
- Sensors
- Telematics & Tracking
- Automotive Diagnostics
- Camera & Monitoring
- Control System
- Display
- Electronic Toll System
- ADAS (Advanced Driver Assistance Systems)
- Agriculture Electronic Equipment
- Gps System



Hybrid Electric Vehicles

- Battery Module
- Controller Unit
- Electric Scooter
- Electric Wheelchair
- Hoverboard
- Motor Module
- Throttle Controller
- Gear Shift Module
- Electrical and Electronic Brake System
- Electrical and Electronic Speed Control



Industrial Automation

- Machine Tools
- Motor Drives
- Packaging
- Power
- Sensors
- Switches
- Actuators
- Conveyors
- Industrial Network
- Industrial PC & Displays
- Industrial Control
- Industrial Forklifts
- Industrial Robots
- AVI (Automatic Visual Inspection)
- Communication System



Automotive Diagnostics

- Auto Crash Notification
- Remote Vehicle Diagnostics
- Vehicle Health Alert & Roadside Assistance
- Vehicle Tracking



Test Equipment

- Sound Measuring
- Timers / Timer Display
- Water Measurement
- Weigh Modules
- Weighing Devices
- Leak Detectors
- Laser Marking System
- Borescope
- Digital Microscopes
- Dosing Systems
- Earthquake monitoring
- Floor Scales
- Light Measuring
- Wet Area Weighing
- Gas Detectors
- Heavy-duty Scales
- Humidity Measurement
- Image Measurement
- In-Motion Weighing
- Precision Surveying
- Air Flow Measurement



LED

- Architectural Lighting
- Commercial Lighting
- Cruise & Shipyards Lighting
- Emergency Lighting
- Horticulture Lighting
- Hospital Surgical Lighting & Room
- Outdoor LED Displays
- Refrigeration Lighting
- Tunnel Lighting
- UV and Sanitary Lighting



Transportation

- Vehicle Camera
- Fleet Management
- Bus GPS
- Displayer
- Outdoor Speaker
- Switch
- Vehicle Charger
- Dome Vehicle Camera
- Digital Video Surveillance System



UAV

- Commercial Drone
- Consumer Drone
- Military Drone



Medical

- Electrical beds



Rugged IT

- Night Vision Goggles
- Rugged & Military VR and AR
- Telemetry



Mobile Devices

- Altimeter
- Barcode Reader
- DRC (Drone Remote Controller)



Lifts & Materials Handling

- Forklift
- Industrial Lift
- Materials Handling



Automated Meter Reading

- Electricity Meter
- Gas Meter
- Sewage
- Telemetry
- Water Meter
- Alarm System
- Military Drone
- Vehicle Tracking

Product Range Overview

Sub-Series Name	M5	Guided M8 / LED	M8 /LED	M10.5	M12 A / LED	M12 B / LED	M12 D / LED	M12 I
Mating Style	Screw Thread	Screw Thread Snap-in	Screw Thread & Snap-in	Screw Thread	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull
Plastic Version	-	✓	✓	-	✓	✓	✓	✓
Metal Version	✓	✓	✓	✓	✓	✓	✓	✓
No. of Contacts	3 ~ 6	2 ~ 6	3 ~ 13	2 ~ 5	3 ~ 28	5	4	5
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Transmission Rate	-	-	-	-	Cat. 5e (8 Pin To RJ45)	-	Cat. 5e (4 Pin To RJ45)	-
Operating Voltage (AC/DC)	60V	30V ~ 60V	30V ~ 60V	30V	30V ~ 250V	60V	250V	60V
Nominal Current	1A	2A ~ 4A 3A+1.5A	0.5A ~ 4A	2A	0.5A ~ 4A	4A	4A	4A
Operating Temperature	• Receptacle: -40°C ~ 105°C • Receptacle With Wires: -20°C ~ 85°C • Overmolded With Cable: (1) PVC: -20°C~85°C (2) PUR: -20°C~85°C • Field Serviceable/Installable: -40°C ~ 105°C							
Fasten Style of Nut	Front & Rear	Front & Rear	Front & Rear	Rear	Front & Rear	Front & Rear	Front & Rear	Front & Rear
Receptacle	✓	✓	✓	✓	✓	✓	✓	✓
Receptacle With Cable/Wire	✓	✓	✓	✓	✓	✓	✓	-
Overmolded With Cable	✓	✓	✓	✓	✓	✓	✓	✓
Field Serviceable/Installable	-	✓	✓	✓	✓	✓	✓	-
Accessories	-	✓	✓	✓	✓	✓	✓	✓
Applicable Wire Gauge	28 ~ 26AWG (0.09 ~ 0.14mm ²)	24 ~ 22AWG (0.25 ~ 0.34mm ²)	32AWG (0.03mm ²)	24AWG (0.25mm ²)	30 ~ 22AWG (0.05 ~ 0.34mm ²)	26 ~ 22AWG (0.14 ~ 0.34mm ²)	26 ~ 22AWG (0.14 ~ 0.34mm ²)	22AWG (0.34mm ²)
Mating Cycles (Pin Contact)	1,000 Cycles (IEC 100 Cycles)							
IP Rating	• Receptacle, Receptacle With Wires: (1) IP67 (Mated / Unmated) (2) IP68 (Unmated, 1M / 24h) (3) IP69K (Mated) • Overmolded With Cable, Field Serviceable/Installable: IP67 / IP68 (Mated, 1M / 24h)							
Salt Spray (Connector, Mated)	48h	48h	48h	48h	48h	48h	48h	48h
UV Resistant	✓	✓	✓	✓	✓	✓	✓	✓
Flammability Rating	UL94V-0	UL94V-0	UL 94V-0	UL 94HB	UL 94V-0	UL 94V-0	UL 94V-0	UL 94HB
Vibration	Frequency Range 10~500Hz / Amplitude 0.35mm							
EMI Option	-	✓	✓	-	✓	✓	✓	-
RoHS 2.0 Compliant	✓	✓	✓	✓	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓	✓	✓	✓	✓
Certificates	-	-	UL1977 UL2238	-	UL1977, UL2238, UL1863	UL1977 UL2238	UL1977, UL2238, UL1863	-
Standard / Compliance	IEC 61076-2-105	-	IEC 61076-2-104	-	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101	-

Product Range Overview

Sub-Series Name	M12 K / LED	M12 L / LED	M12 M / LED	M12 S / LED	M12 T / LED	M12 X	M12 Y	M23
Mating Style	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread & Push Pull	Screw Thread
Plastic Version	✓	✓	✓	✓	✓	-	✓	-
Metal Version	✓	✓	✓	✓	✓	✓	✓	✓
No. of Contacts	3 ~ 5	2 ~ 5	3 ~ 6	3 ~ 4	2 ~ 4	8	8	6
Plating of Contacts	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Transmission Rate	-	-	-	-	-	Cat.6A	-	-
Operating Voltage (AC/DC)	630V	63V	630V	630V	63V	30 ~ 60V	60V	600V
Nominal Current	12A / 16A	16A	8A	12A	12A	0.5A	0.5A / 6A	28A
Operating Temperature	• Receptacle: -40°C ~ 105°C • Receptacle With Wires: -20°C ~ 85°C • Overmolded With Cable: (1) PVC: -20°C~85°C (2) PUR: -20°C~85°C • Field Serviceable/Installable: -40°C ~ 105°C							
Fasten Style of Nut	Front	Front	Front	Front & Rear	Front & Rear	Front & Rear	Front & Rear	Front
Receptacle	✓	✓	✓	✓	✓	✓	✓	✓
Receptacle With Cable/Wire	✓	✓	✓	✓	✓	✓	✓	-
Overmolded With Cable	✓	✓	✓	✓	✓	✓	✓	✓
Field Serviceable/Installable	✓	✓	✓	✓	✓	✓	✓	✓
Accessories	✓	✓	✓	✓	✓	✓	-	-
Applicable Wire Gauge	14AWG (2.5mm ²)	14AWG (2.5mm ²)	16AWG (1.5mm ²)	16AWG (1.5mm ²)	16AWG (1.5mm ²)	26AWG (0.14mm ²)	20 AWG(0.50mm ²) 26 AWG(0.14mm ²)	14 ~ 12AWG (2.50 ~ 4.00mm ²)
Mating Cycles (Pin Contact)	1,000 Cycles (IEC 100 Cycles)							
IP Rating	• Receptacle, Receptacle With Wires: (1) IP67 (Mated / Unmated) (2) IP68 (Unmated, 1M / 24h) (3) IP69K (Mated) • Overmolded With Cable, Field Serviceable/Installable: IP67 / IP68 (Mated, 1M / 24h)							
Salt Spray (Connector, Mated)	48h	48h	48h	48h	48h	48h	48h	48h
UV Resistant	✓	✓	✓	✓	✓	✓	✓	✓
Flammability Rating	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0	UL 94V-0
Vibration	Frequency Range 10~500Hz / Amplitude 0.35mm							
EMI Option	-	-	✓	-	-	✓	✓	✓
RoHS 2.0 Compliant	✓	✓	✓	✓	✓	✓	✓	✓
REACH Compliant	✓	✓	✓	✓	✓	✓	✓	✓
Certificates	UL1977 UL2237	UL1977 UL2238	-	UL1977 UL2237	UL1977 UL2238	UL1863	UL1863	-
Standard / Compliance	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-109	IEC 61076-2-109	-

Contact Configuration

	M5	G8 A Code / LED		G8 H Code	M8 A Code / LED				M8 B Code / LED	M8 D Code / LED	M10.5	M12 A Code / LED	
	1A	2A	4A	3A + 1.5A	0.5A	1A	1.5A	4A	3A	4A	2A	0.5A	1.5A
2 Pin													
			R C F								R C F		
3 Pin													
	R C		R C F					R C F			R C F		
4 Pin										MM FF 			
	R C		R C F					R C F		R C F	R C F		
5 Pin													
		R C F		R C F					R C F		R C F		
6 Pin													
	R C	R C F					R C F						
8 Pin													
							R C F						
10 Pin													
												R C F	
12 Pin													
						R C F						R C F	
13 Pin													
					R C F								
17 Pin													
												R C F	
18 Pin													
											R C F		
24 Pin													
											R C F		
28 Pin													
											R C F		

R: Receptacle C: Overmolded with Cable F: Field Serviceable/Installable

Contact Configuration

	M12 A Code / LED		M12 B Code / LED	M12 D Code / LED	M12 I Code	M12 K Code / LED	M12 L Code / LED
	2A	4A	4A	4A	4A	12A / 16 A	16A
2 Pin							 R C F
3 Pin		 R C F				 R C F	 R C F
4 Pin		 R C F		 R C F		 R C F	 R C F
5 Pin		 R C F	 R C F		 R C F	 R C F	 R C F
6 Pin	 R C F						
8 Pin	 R C F						

	M12 M Code / LED	M12 S Code / LED	M12 T Code / LED	M12 X Code	M12 Y Code	M23
	8A	12A	12A	0.5A	0.5A / 6A	28A
2 Pin			 R C F			
3 Pin	 R C F	 R C F	 R C F			
4 Pin	 R C F	 R C F	 R C F			
5 Pin	 R C F					
6 Pin	 R C F					 R C F
8 Pin				 R C F	 R C F	

R: Receptacle C: Overmolded with Cable F: Field Serviceable/Installable

M12 Series

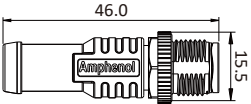
- M12 Data Group Supports Up To Cat. 6A (10Gpbs)
- M12 Power Group Supports Up To 16A
- Patented Universal Push Pull Quick Mating Design



Number of Contacts	3	
Coding	A	
Rated Voltage (AC/DC)	250V	
Nominal current	4A	
Pin Assignment	MM	MPronto-12 (M/M)
MM: Male Connector Male Contact		

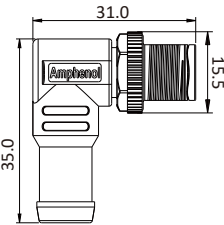
STRAIGHT, Overmolded Cable Assembly, Free Cable End

¹⁰ Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-03BMMM-SL8A ¹⁰	-
		UL20549, PUR Jacket	MSAP-03BMMM-SL8B ¹⁰	-
		UL2517, PVC Jacket (Black)	MSAP-03BMMM-SL8D ¹⁰	-
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAP-03BMMM-SL8N ¹⁰ *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-03BMMM-SL8A ¹⁰	M12A-03BMMM-PL8A ¹⁰ *
		UL20549, PUR Jacket	M12A-03BMMM-SL8B ¹⁰	M12A-03BMMM-PL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	M12A-03BMMM-SL8D ¹⁰	M12A-03BMMM-PL8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12A-03BMMM-SL8N ¹⁰ *	M12A-03BMMM-PL8N ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-03BMMM-SL8A ¹⁰ *	MSAS-03BMMM-PL8A ¹⁰ *
		UL20549, PUR Jacket	MSAS-03BMMM-SL8B ¹⁰ *	MSAS-03BMMM-PL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAS-03BMMM-SL8D ¹⁰ *	MSAS-03BMMM-PL8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAS-03BMMM-SL8N ¹⁰ *	MSAS-03BMMM-PL8N ¹⁰ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-03BMMM-SL8A ¹⁰ *	SM12A-03BMMM-PL8A ¹⁰ *
		UL20549, PUR Jacket	SM12A-03BMMM-SL8B ¹⁰ *	SM12A-03BMMM-PL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A-03BMMM-SL8D ¹⁰ *	SM12A-03BMMM-PL8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A-03BMMM-SL8N ¹⁰ *	SM12A-03BMMM-PL8N ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-03BMMM-SL8A ¹⁰ *	SMSAS-03BMMM-PL8A ¹⁰ *
		UL20549, PUR Jacket	SMSAS-03BMMM-SL8B ¹⁰ *	SMSAS-03BMMM-PL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS-03BMMM-SL8D ¹⁰ *	SMSAS-03BMMM-PL8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSAS-03BMMM-SL8N ¹⁰ *	SMSAS-03BMMM-PL8N ¹⁰ *

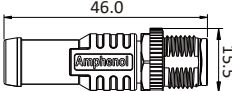
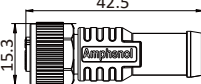
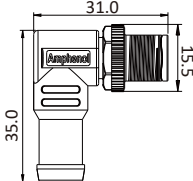
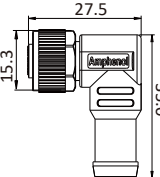
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

¹⁰ Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-03BMMM-SR8A ¹⁰	-
		UL20549, PUR Jacket	MSAP-03BMMM-SR8B ¹⁰	-
		UL2517, PVC Jacket (Black)	MSAP-03BMMM-SR8D ¹⁰	-
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAP-03BMMM-SR8N ¹⁰ *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-03BMMM-SR8A ¹⁰	M12A-03BMMM-PR8A ¹⁰ *
		UL20549, PUR Jacket	M12A-03BMMM-SR8B ¹⁰	M12A-03BMMM-PR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	M12A-03BMMM-SR8D ¹⁰	M12A-03BMMM-PR8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12A-03BMMM-SR8N ¹⁰ *	M12A-03BMMM-PR8N ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-03BMMM-SR8A ¹⁰ *	MSAS-03BMMM-PR8A ¹⁰ *
		UL20549, PUR Jacket	MSAS-03BMMM-SR8B ¹⁰ *	MSAS-03BMMM-PR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAS-03BMMM-SR8D ¹⁰ *	MSAS-03BMMM-PR8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAS-03BMMM-SR8N ¹⁰ *	MSAS-03BMMM-PR8N ¹⁰ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-03BMMM-SR8A ¹⁰ *	SM12A-03BMMM-PR8A ¹⁰ *
		UL20549, PUR Jacket	SM12A-03BMMM-SR8B ¹⁰ *	SM12A-03BMMM-PR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A-03BMMM-SR8D ¹⁰ *	SM12A-03BMMM-PR8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A-03BMMM-SR8N ¹⁰ *	SM12A-03BMMM-PL8N ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-03BMMM-SR8A ¹⁰ *	SMSAS-03BMMM-PL8A ¹⁰ *
		UL20549, PUR Jacket	SMSAS-03BMMM-SR8B ¹⁰ *	SMSAS-03BMMM-PL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS-03BMMM-SR8D ¹⁰ *	SMSAS-03BMMM-PL8D ¹⁰ *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSAS-03BMMM-SR8N ¹⁰ *	SMSAS-03BMMM-PL8N ¹⁰ *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts			3	4
Coding			A	A
Rated Voltage (AC/DC)			250V	250V
Nominal current			4A	4A
Pin Assignment			FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact				
STRAIGHT, Overmolded Cable Assembly, Free Cable End				
10 Cable Length: (01) 1M ~ (99) 99M ¹⁾				
MM  FF  <td rowspan="5">All Plastic</td> <td>UL2517, PVC Jacket (Yellow)</td> <td>MSAP-03BFFM-SL8A 10</td> <td>MSAP-04BMMM-SL8A 10</td>	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-03BFFM-SL8A 10	MSAP-04BMMM-SL8A 10
		UL20549, PUR Jacket	MSAP-03BFFM-SL8B 10	MSAP-04BMMM-SL8B 10
		UL2517, PVC Jacket (Black)	MSAP-03BFFM-SL8D 10	MSAP-04BMMM-SL8D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAP-03BFFM-SL8N 10 *	MSAP-04BMMM-SL8N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-03BFFM-SL8A 10	M12A-04BMMM-SL8A 10
		UL20549, PUR Jacket	M12A-03BFFM-SL8B 10	M12A-04BMMM-SL8B 10
		UL2517, PVC Jacket (Black)	M12A-03BFFM-SL8D 10	M12A-04BMMM-SL8D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12A-03BFFM-SL8N 10 *	M12A-04BMMM-SL8N 10
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-03BFFM-SL8A 10 *	MSAS-04BMMM-SL8A 10 *
		UL20549, PUR Jacket	MSAS-03BFFM-SL8B 10 *	MSAS-04BMMM-SL8B 10
		UL2517, PVC Jacket (Black)	MSAS-03BFFM-SL8D 10	MSAS-04BMMM-SL8D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAS-03BFFM-SL8N 10 *	MSAS-04BMMM-SL8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-03BFFM-SL8A 10 *	SM12A-04BMMM-SL8A 10
		UL20549, PUR Jacket	SM12A-03BFFM-SL8B 10 *	SM12A-04BMMM-SL8B 10
		UL2517, PVC Jacket (Black)	SM12A-03BFFM-SL8D 10 *	SM12A-04BMMM-SL8D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A-03BFFM-SL8N 10 *	SM12A-04BMMM-SL8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-03BFFM-SL8A 10 *	SMSAS-04BMMM-SL8A 10 *
		UL20549, PUR Jacket	SMSAS-03BFFM-SL8B 10 *	SMSAS-04BMMM-SL8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-03BFFM-SL8D 10 *	SMSAS-04BMMM-SL8D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSAS-03BFFM-SL8N 10 *	SMSAS-04BMMM-SL8N 10 *
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End				
10 Cable Length: (01) 1M ~ (99) 99M ¹⁾				
MM  FF  <td rowspan="5">All Plastic</td> <td>UL2517, PVC Jacket (Yellow)</td> <td>MSAP-03BFFM-SR8A 10</td> <td>MSAP-04BMMM-SR8A 10</td>	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-03BFFM-SR8A 10	MSAP-04BMMM-SR8A 10
		UL20549, PUR Jacket	MSAP-03BFFM-SR8B 10	MSAP-04BMMM-SR8B 10
		UL2517, PVC Jacket (Black)	MSAP-03BFFM-SR8D 10	MSAP-04BMMM-SR8D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAP-03BFFM-SR8N 10 *	MSAP-04BMMM-SR8N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-03BFFM-SR8A 10	M12A-04BMMM-SR8A 10
		UL20549, PUR Jacket	M12A-03BFFM-SR8B 10	M12A-04BMMM-SR8B 10
		UL2517, PVC Jacket (Black)	M12A-03BFFM-SR8D 10	M12A-04BMMM-SR8D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12A-03BFFM-SR8N 10 *	M12A-04BMMM-SR8N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-03BFFM-SR8A 10 *	MSAS-04BMMM-SR8A 10 *
		UL20549, PUR Jacket	MSAS-03BFFM-SR8B 10 *	MSAS-04BMMM-SR8B 10 *
		UL2517, PVC Jacket (Black)	MSAS-03BFFM-SR8D 10 *	MSAS-04BMMM-SR8D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAS-03BFFM-SR8N 10 *	MSAS-04BMMM-SR8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-03BFFM-SR8A 10 *	SM12A-04BMMM-SR8A 10 *
		UL20549, PUR Jacket	SM12A-03BFFM-SR8B 10 *	SM12A-04BMMM-SR8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-03BFFM-SR8D 10 *	SM12A-04BMMM-SR8D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A-03BFFM-SR8N 10 *	SM12A-04BMMM-SR8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-03BFFM-SR8A 10 *	SMSAS-04BMMM-SR8A 10 *
		UL20549, PUR Jacket	SMSAS-03BFFM-SR8B 10 *	SMSAS-04BMMM-SR8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-03BFFM-SR8D 10 *	SMSAS-04BMMM-SR8D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSAS-03BFFM-SR8N 10 *	SMSAS-04BMMM-SR8N 10 *

* Upon Request

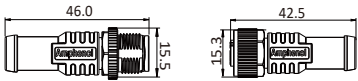
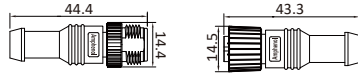
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4		4		
A		D		
250V		250V		
4A		4A		
MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)	FF
				
-	MSAP-04BFFM-SL8A 	MSDP-04BMMM-SL8A 	-	MSDP-04BFFM-SL8A 
-	MSAP-04BFFM-SL8B 	MSDP-04BMMM-SL8B 	-	MSDP-04BFFM-SL8B 
-	MSAP-04BFFM-SL8D 	MSDP-04BMMM-SL8D 	-	MSDP-04BFFM-SL8D 
-	-	MSDP-04BMMM-SL8E 	-	MSDP-04BFFM-SL8E 
-	MSAP-04BFFM-SL8N 	MSDP-04BMMM-SL8N 	-	MSDP-04BFFM-SL8N 
M12A-04BMMM-PL8A 	M12A-04BFFM-SL8A 	M12D-04BMMM-SL8A 	M12D-04BMMM-PL8A 	M12D-04BFFM-SL8A 
M12A-04BMMM-PL8B 	M12A-04BFFM-SL8B 	M12D-04BMMM-SL8B 	M12D-04BMMM-PL8B 	M12D-04BFFM-SL8B 
M12A-04BMMM-PL8D 	M12A-04BFFM-SL8D 	M12D-04BMMM-SL8D 	M12D-04BMMM-PL8D 	M12D-04BFFM-SL8D 
-	-	M12D-04BMMM-SL8E 	M12D-04BMMM-PL8E 	M12D-04BFFM-SL8E 
M12A-04BMMM-PL8N 	M12A-04BFFM-SL8N 	M12D-04BMMM-SL8N 	M12D-04BMMM-PL8N 	M12D-04BFFM-SL8N 
MSAS-04BMMM-PL8A 	MSAS-04BFFM-SL8A 	MSDS-04BMMM-SL8A 	MSDS-04BMMM-PL8A 	MSDS-04BFFM-SL8A 
MSAS-04BMMM-PL8B 	MSAS-04BFFM-SL8B 	MSDS-04BMMM-SL8B 	MSDS-04BMMM-PL8B 	MSDS-04BFFM-SL8B 
MSAS-04BMMM-PL8D 	MSAS-04BFFM-SL8D 	MSDS-04BMMM-SL8D 	MSDS-04BMMM-PL8D 	MSDS-04BFFM-SL8D 
-	-	MSDS-04BMMM-SL8E 	MSDS-04BMMM-PL8E 	MSDS-04BFFM-SL8E 
MSAS-04BMMM-PL8N 	MSAS-04BFFM-SL8N 	MSDS-04BMMM-SL8N 	MSDS-04BMMM-PL8N 	MSDS-04BFFM-SL8N 
SM12A-04BMMM-PL8A 	SM12A-04BFFM-SL8A 	SM12D-04BMMM-SL8A 	SM12D-04BMMM-PL8A 	SM12D-04BFFM-SL8A 
SM12A-04BMMM-PL8B 	SM12A-04BFFM-SL8B 	SM12D-04BMMM-SL8B 	SM12D-04BMMM-PL8B 	SM12D-04BFFM-SL8B 
SM12A-04BMMM-PL8D 	SM12A-04BFFM-SL8D 	SM12D-04BMMM-SL8D 	SM12D-04BMMM-PL8D 	SM12D-04BFFM-SL8D 
-	-	SM12D-04BMMM-SL8E 	SM12D-04BMMM-PL8E 	SM12D-04BFFM-SL8E 
SM12A-04BMMM-PL8N 	SM12A-04BFFM-SL8N 	SM12D-04BMMM-SL8N 	SM12D-04BMMM-PL8N 	SM12D-04BFFM-SL8N 
SMSAS-04BMMM-PL8A 	SMSAS-04BFFM-SL8A 	SMSDS-04BMMM-SL8A 	SMSDS-04BMMM-PL8A 	SMSDS-04BFFM-SL8A 
SMSAS-04BMMM-PL8B 	SMSAS-04BFFM-SL8B 	SMSDS-04BMMM-SL8B 	SMSDS-04BMMM-PL8B 	SMSDS-04BFFM-SL8B 
SMSAS-04BMMM-PL8D 	SMSAS-04BFFM-SL8D 	SMSDS-04BMMM-SL8D 	SMSDS-04BMMM-PL8D 	SMSDS-04BFFM-SL8D 
-	-	SMSDS-04BMMM-SL8E 	SMSDS-04BMMM-PL8E 	SMSDS-04BFFM-SL8E 
SMSAS-04BMMM-PL8N 	SMSAS-04BFFM-SL8N 	SMSDS-04BMMM-SL8N 	SMSDS-04BMMM-PL8N 	SMSDS-04BFFM-SL8N 
-	MSAP-04BFFM-SR8A 	MSDP-04BMMM-SR8A 	-	MSDP-04BFFM-SR8A 
-	MSAP-04BFFM-SR8B 	MSDP-04BMMM-SR8B 	-	MSDP-04BFFM-SR8B 
-	MSAP-04BFFM-SR8D 	MSDP-04BMMM-SR8D 	-	MSDP-04BFFM-SR8D 
-	-	MSDP-04BMMM-SR8E 	-	MSDP-04BFFM-SR8E 
-	MSAP-04BFFM-SR8N 	MSDP-04BMMM-SR8N 	-	MSDP-04BFFM-SR8N 
M12A-04BMMM-PR8A 	M12A-04BFFM-SR8A 	M12D-04BMMM-SR8A 	M12D-04BMMM-PR8A 	M12D-04BFFM-SR8A 
M12A-04BMMM-PR8B 	M12A-04BFFM-SR8B 	M12D-04BMMM-SR8B 	M12D-04BMMM-PR8B 	M12D-04BFFM-SR8B 
M12A-04BMMM-PR8D 	M12A-04BFFM-SR8D 	M12D-04BMMM-SR8D 	M12D-04BMMM-PR8D 	M12D-04BFFM-SR8D 
-	-	M12D-04BMMM-SR8E 	M12D-04BMMM-PR8E 	M12D-04BFFM-SR8E 
M12A-04BMMM-PR8N 	M12A-04BFFM-SR8N 	M12D-04BMMM-SR8N 	M12D-04BMMM-PR8N 	M12D-04BFFM-SR8N 
MSAS-04BMMM-PR8A 	MSAS-04BFFM-SR8A 	MSDS-04BMMM-SR8A 	MSDS-04BMMM-PR8A 	MSDS-04BFFM-SR8A 
MSAS-04BMMM-PR8B 	MSAS-04BFFM-SR8B 	MSDS-04BMMM-SR8B 	MSDS-04BMMM-PR8B 	MSDS-04BFFM-SR8B 
MSAS-04BMMM-PR8D 	MSAS-04BFFM-SR8D 	MSDS-04BMMM-SR8D 	MSDS-04BMMM-PR8D 	MSDS-04BFFM-SR8D 
-	-	MSDS-04BMMM-SR8E 	MSDS-04BMMM-PR8E 	MSDS-04BFFM-SR8E 
MSAS-04BMMM-PR8N 	MSAS-04BFFM-SR8N 	MSDS-04BMMM-SR8N 	MSDS-04BMMM-PR8N 	MSDS-04BFFM-SR8N 
SM12A-04BMMM-PR8A 	SM12A-04BFFM-SR8A 	SM12D-04BMMM-SR8A 	SM12D-04BMMM-PR8A 	SM12D-04BFFM-SR8A 
SM12A-04BMMM-PR8B 	SM12A-04BFFM-SR8B 	SM12D-04BMMM-SR8B 	SM12D-04BMMM-PR8B 	SM12D-04BFFM-SR8B 
SM12A-04BMMM-PR8D 	SM12A-04BFFM-SR8D 	SM12D-04BMMM-SR8D 	SM12D-04BMMM-PR8D 	SM12D-04BFFM-SR8D 
-	-	SM12D-04BMMM-SR8E 	SM12D-04BMMM-PR8E 	SM12D-04BFFM-SR8E 
SM12A-04BMMM-PL8N 	SM12A-04BFFM-SR8N 	SM12D-04BMMM-SR8N 	SM12D-04BMMM-PR8N 	SM12D-04BFFM-SR8N 
SMSAS-04BMMM-PL8A 	SMSAS-04BFFM-SR8A 	SMSDS-04BMMM-SR8A 	SMSDS-04BMMM-PR8A 	SMSDS-04BFFM-SR8A 
SMSAS-04BMMM-PL8B 	SMSAS-04BFFM-SR8B 	SMSDS-04BMMM-SR8B 	SMSDS-04BMMM-PR8B 	SMSDS-04BFFM-SR8B 
SMSAS-04BMMM-PL8D 	SMSAS-04BFFM-SR8D 	SMSDS-04BMMM-SR8D 	SMSDS-04BMMM-PR8D 	SMSDS-04BFFM-SR8D 
-	-	SMSDS-04BMMM-SR8E 	SMSDS-04BMMM-PR8E 	SMSDS-04BFFM-SR8E 
SMSAS-04BMMM-PL8N 	SMSAS-04BFFM-SR8N 	SMSDS-04BMMM-SR8N 	SMSDS-04BMMM-PR8N 	SMSDS-04BFFM-SR8N 

Number of Contacts	5	
Coding	A	
Rated Voltage (AC/DC)	60V	
Nominal current	4A	
Pin Assignment	MM	MPronto-12 (M/M)
MM: Male Connector Male Contact FF: Female Connector Female Contact MI: Male Connector Male + Female Contact		

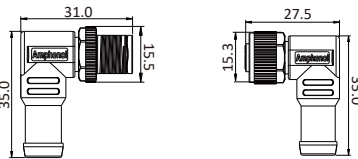
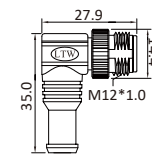
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

MM FF A, B code  I code 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-05BMMM-SL8A 10	-
		UL20549, PUR Jacket	MSAP-05BMMM-SL8B 10	-
		UL2517, PVC Jacket (Black)	MSAP-05BMMM-SL8D 10	-
		UL20549, High Flex / Bending PUR	MSAP-05BMMM-SL8N 10 *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-05BMMM-SL8A 10	M12A-05BMMM-PL8A 10 *
		UL20549, PUR Jacket	M12A-05BMMM-SL8B 10	M12A-05BMMM-PL8B 10
		UL2517, PVC Jacket (Black)	M12A-05BMMM-SL8D 10	M12A-05BMMM-PL8D 10
		UL20549, High Flex / Bending PUR	M12A-05BMMM-SL8N 10	M12A-05BMMM-PL8N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-05BMMM-SL8A 10 *	MSAS-05BMMM-PL8A 10 *
		UL20549, PUR Jacket	MSAS-05BMMM-SL8B 10	MSAS-05BMMM-PL8B 10
		UL2517, PVC Jacket (Black)	MSAS-05BMMM-SL8D 10	MSAS-05BMMM-PL8D 10
		UL20549, High Flex / Bending PUR	MSAS-05BMMM-SL8N 10 *	MSAS-05BMMM-PL8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-05BMMM-SL8A 10 *	SM12A-05BMMM-PL8A 10 *
		UL20549, PUR Jacket	SM12A-05BMMM-SL8B 10 *	SM12A-05BMMM-PL8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-05BMMM-SL8D 10	SM12A-05BMMM-PL8D 10
		UL20549, High Flex / Bending PUR	SM12A-05BMMM-SL8N 10 *	SM12A-05BMMM-PL8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-05BMMM-SL8A 10 *	SMSAS-05BMMM-PL8A 10 *
		UL20549, PUR Jacket	SMSAS-05BMMM-SL8B 10 *	SMSAS-05BMMM-PL8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-05BMMM-SL8D 10 *	SMSAS-05BMMM-PL8D 10 *
		UL20549, High Flex / Bending PUR	SMSAS-05BMMM-SL8N 10 *	SMSAS-05BMMM-PL8N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

MM FF A, B code  I code 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-05BMMM-SR8A 10	-
		UL20549, PUR Jacket	MSAP-05BMMM-SR8B 10	-
		UL2517, PVC Jacket (Black)	MSAP-05BMMM-SR8D 10	-
		UL20549, High Flex / Bending PUR	MSAP-05BMMM-SR8N 10 *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-05BMMM-SR8A 10	M12D-05BMMM-PR8A 10 *
		UL20549, PUR Jacket	M12A-05BMMM-SR8B 10	M12D-05BMMM-PR8B 10 *
		UL2517, PVC Jacket (Black)	M12A-05BMMM-SR8D 10	M12D-05BMMM-PR8D 10 *
		UL20549, High Flex / Bending PUR	M12A-05BMMM-SR8N 10 *	M12D-05BMMM-PR8N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-05BMMM-SR8A 10 *	MSDS-05BMMM-PR8A 10 *
		UL20549, PUR Jacket	MSAS-05BMMM-SR8B 10	MSDS-05BMMM-PR8B 10 *
		UL2517, PVC Jacket (Black)	MSAS-05BMMM-SR8D 10	MSDS-05BMMM-PR8D 10 *
		UL20549, High Flex / Bending PUR	MSAS-05BMMM-SR8N 10 *	MSDS-05BMMM-PR8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-05BMMM-SR8A 10 *	SM12D-05BMMM-PR8A 10 *
		UL20549, PUR Jacket	SM12A-05BMMM-SR8B 10 *	SM12D-05BMMM-PR8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-05BMMM-SR8D 10 *	SM12D-05BMMM-PR8D 10 *
		UL20549, High Flex / Bending PUR	SM12A-05BMMM-SR8N 10 *	SM12D-05BMMM-PR8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-05BMMM-SR8A 10 *	SMSDS-05BMMM-PR8A 10 *
		UL20549, PUR Jacket	SMSAS-05BMMM-SR8B 10 *	SMSDS-05BMMM-PR8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-05BMMM-SR8D 10 *	SMSDS-05BMMM-PR8D 10 *
		UL20549, High Flex / Bending PUR	SMSAS-05BMMM-SR8N 10 *	SMSDS-05BMMM-PR8N 10 *

* Upon Request

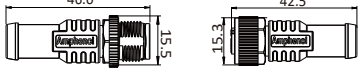
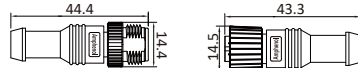
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5	5			5
A	B			I
60V	60V			60V
4A	4A			4A
FF	MM	MPronto-12 (M/M)	FF	Male/Hybrid
				
MSAP-05BFFM-SL8A 	MSBP-05BMMM-SL8A 	-	MSBP-05BFFM-SL8A 	MSIP-05BMIM-SL7A  *
MSAP-05BFFM-SL8B 	MSBP-05BMMM-SL8B 	-	MSBP-05BFFM-SL8B 	MSIP-05BMIM-SL7B  *
MSAP-05BFFM-SL8D 	MSBP-05BMMM-SL8D 	-	MSBP-05BFFM-SL8D 	MSIP-05BMIM-SL7D  *
MSAP-05BFFM-SL8N  *	MSBP-05BMMM-SL8N  *	-	MSBP-05BFFM-SL8N  *	MSIP-05BMIM-SL7N  *
M12A-05BFFM-SL8A 	M12B-05BMMM-SL8A 	M12B-05BMMM-PL8A  *	M12B-05BFFM-SL8A 	M12I-05BMIM-SL7A  *
M12A-05BFFM-SL8B 	M12B-05BMMM-SL8B 	M12B-05BMMM-PL8B 	M12B-05BFFM-SL8B 	M12I-05BMIM-SL7B  *
M12A-05BFFM-SL8D 	M12B-05BMMM-SL8D 	M12B-05BMMM-PL8D 	M12B-05BFFM-SL8D 	M12I-05BMIM-SL7D  *
M12A-05BFFM-SL8N 	M12B-05BMMM-SL8N  *	M12B-05BMMM-PL8N  *	M12B-05BFFM-SL8N  *	M12I-05BMIM-SL7N  *
MSAS-05BFFM-SL8A  *	MSBS-05BMMM-SL8A  *	MSBS-05BMMM-PL8A  *	MSBS-05BFFM-SL8A  *	MSIS-05BMIM-SL7A  *
MSAS-05BFFM-SL8B 	MSBS-05BMMM-SL8B 	MSBS-05BMMM-PL8B 	MSBS-05BFFM-SL8B 	MSIS-05BMIM-SL7B  *
MSAS-05BFFM-SL8D 	MSBS-05BMMM-SL8D 	MSBS-05BMMM-PL8D 	MSBS-05BFFM-SL8D 	MSIS-05BMIM-SL7D  *
MSAS-05BFFM-SL8N  *	MSBS-05BMMM-SL8N  *	MSBS-05BMMM-PL8N  *	MSBS-05BFFM-SL8N  *	MSIS-05BMIM-SL7N  *
SM12A-05BFFM-SL8A  *	SM12B-05BMMM-SL8A  *	SM12B-05BMMM-PL8A  *	SM12B-05BFFM-SL8A  *	SM12I-05BMIM-SL7A  *
SM12A-05BFFM-SL8B 	SM12B-05BMMM-SL8B 	SM12B-05BMMM-PL8B 	SM12B-05BFFM-SL8B 	SM12I-05BMIM-SL7B  *
SM12A-05BFFM-SL8D 	SM12B-05BMMM-SL8D 	SM12B-05BMMM-PL8D 	SM12B-05BFFM-SL8D 	SM12I-05BMIM-SL7D  *
SM12A-05BFFM-SL8N  *	SM12B-05BMMM-SL8N  *	SM12B-05BMMM-PL8N  *	SM12B-05BFFM-SL8N  *	-
SMSAS-05BFFM-SL8A  *	SMSBS-05BMMM-SL8A  *	SMSBS-05BMMM-PL8A  *	SMSBS-05BFFM-SL8A  *	SMSIS-05BMIM-SL7A  *
SMSAS-05BFFM-SL8B 	SMSBS-05BMMM-SL8B 	SMSBS-05BMMM-PL8B 	SMSBS-05BFFM-SL8B 	SMSIS-05BMIM-SL7B  *
SMSAS-05BFFM-SL8D 	SMSBS-05BMMM-SL8D 	SMSBS-05BMMM-PL8D 	SMSBS-05BFFM-SL8D 	SMSIS-05BMIM-SL7D  *
SMSAS-05BFFM-SL8N  *	SMSBS-05BMMM-SL8N  *	SMSBS-05BMMM-PL8N  *	SMSBS-05BFFM-SL8N  *	SMSIS-05BMIM-SL7N  *
MSAP-05BFFM-SR8A 	MSBP-05BMMM-SR8A 	-	MSBP-05BFFM-SR8A 	MSIP-05BMIM-SR7A  *
MSAP-05BFFM-SR8B 	MSBP-05BMMM-SR8B 	-	MSBP-05BFFM-SR8B 	MSIP-05BMIM-SR7B  *
MSAP-05BFFM-SR8D 	MSBP-05BMMM-SR8D 	-	MSBP-05BFFM-SR8D 	MSIP-05BMIM-SR7D  *
MSAP-05BFFM-SR8N  *	MSBP-05BMMM-SR8N  *	-	MSBP-05BFFM-SR8N  *	MSIP-05BMIM-SR7N  *
M12A-05BFFM-SR8A 	M12B-05BMMM-SR8A 	M12B-05BMMM-PR8A  *	M12B-05BFFM-SR8A 	M12I-05BMIM-SR7A  *
M12A-05BFFM-SR8B 	M12B-05BMMM-SR8B 	M12B-05BMMM-PR8B 	M12B-05BFFM-SR8B 	M12I-05BMIM-SR7B  *
M12A-05BFFM-SR8D 	M12B-05BMMM-SR8D 	M12B-05BMMM-PR8D 	M12B-05BFFM-SR8D 	M12I-05BMIM-SR7D  *
M12A-05BFFM-SR8N  *	M12B-05BMMM-SR8N  *	M12B-05BMMM-PR8N  *	M12B-05BFFM-SR8N  *	M12I-05BMIM-SR7N  *
MSAS-05BFFM-SR8A  *	MSBS-05BMMM-SR8A  *	MSBS-05BMMM-PR8A  *	MSBS-05BFFM-SR8A  *	MSIS-05BMIM-SR7A  *
MSAS-05BFFM-SR8B 	MSBS-05BMMM-SR8B 	MSBS-05BMMM-PR8B 	MSBS-05BFFM-SR8B 	MSIS-05BMIM-SR7B  *
MSAS-05BFFM-SR8D 	MSBS-05BMMM-SR8D 	MSBS-05BMMM-PR8D 	MSBS-05BFFM-SR8D 	MSIS-05BMIM-SR7D  *
MSAS-05BFFM-SR8N  *	MSBS-05BMMM-SR8N  *	MSBS-05BMMM-PR8N  *	MSBS-05BFFM-SR8N  *	MSIS-05BMIM-SR7N  *
SM12A-05BFFM-SR8A  *	SM12B-05BMMM-SR8A  *	SM12B-05BMMM-PR8A  *	SM12B-05BFFM-SR8A  *	SM12I-05BMIM-SR7A  *
SM12A-05BFFM-SR8B 	SM12B-05BMMM-SR8B 	SM12B-05BMMM-PR8B 	SM12B-05BFFM-SR8B 	SM12I-05BMIM-SR7B  *
SM12A-05BFFM-SR8D 	SM12B-05BMMM-SR8D 	SM12B-05BMMM-PR8D 	SM12B-05BFFM-SR8D 	SM12I-05BMIM-SR7D  *
SM12A-05BFFM-SR8N  *	SM12B-05BMMM-SR8N  *	SM12B-05BMMM-PR8N  *	SM12B-05BFFM-SR8N  *	SM12I-05BMIM-SR7N  *
SMSAS-05BFFM-SR8A  *	SMSBS-05BMMM-SR8A  *	SMSBS-05BMMM-PR8A  *	SMSBS-05BFFM-SR8A  *	SMSIS-05BMIM-SR7A  *
SMSAS-05BFFM-SR8B 	SMSBS-05BMMM-SR8B 	SMSBS-05BMMM-PR8B 	SMSBS-05BFFM-SR8B 	SMSIS-05BMIM-SR7B  *
SMSAS-05BFFM-SR8D	SMSBS-05BMMM-SR8D	SMSBS-05BMMM-PR8D	SMSBS-05BFFM-SR8D	SMSIS-05BMIM-SR7D *
SMSAS-05BFFM-SR8N *	SMSBS-05BMMM-SR8N *	SMSBS-05BMMM-PR8N *	SMSBS-05BFFM-SR8N *	SMSIS-05BMIM-SR7N *

Number of Contacts	5	
Coding	I	
Rated Voltage (AC/DC)	60V	
Nominal current	4A	
Pin Assignment	MPronto-12 (Male/Hybrid)	Female/Hybrid
MM : Male Connector Male Contact FF : Female Connector Female Contact MI : Male Connector Male + Female Contact FI : Female Connector Male + Female Contact		

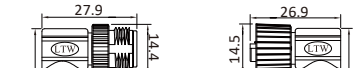
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

MM FF A code  I code 	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSIP-05BFIM-SL7A 10 *
		UL20549, PUR Jacket	-	MSIP-05BFIM-SL7B 10
		UL2517, PVC Jacket (Black)	-	MSIP-05BFIM-SL7D 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	MSIP-05BFIM-SL7N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12I-05BMIM-PL7A 10 *	M12I-05BFIM-SL7A 10 *
		UL20549, PUR Jacket	M12I-05BMIM-PL7B 10 *	M12I-05BFIM-SL7B 10 *
		UL2517, PVC Jacket (Black)	M12I-05BMIM-PL7D 10 *	M12I-05BFIM-SL7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12I-05BMIM-PL7N 10 *	M12I-05BFIM-SL7N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSIS-05BMIM-PL7A 10 *	MSIS-05BFIM-SL7A 10 *
		UL20549, PUR Jacket	MSIS-05BMIM-PL7B 10 *	MSIS-05BFIM-SL7B 10 *
		UL2517, PVC Jacket (Black)	MSIS-05BMIM-PL7D 10 *	MSIS-05BFIM-SL7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSIS-05BMIM-PL7N 10 *	MSIS-05BFIM-SL7N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12I-05BMIM-PL7A 10 *	SM12I-05BFIM-SL7A 10 *
		UL20549, PUR Jacket	SM12I-05BMIM-PL7B 10 *	SM12I-05BFIM-SL7B 10 *
		UL2517, PVC Jacket (Black)	SM12I-05BMIM-PL7D 10 *	SM12I-05BFIM-SL7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSIS-05BMIM-PL7A 10 *	SMSIS-05BFIM-SL7A 10 *
		UL20549, PUR Jacket	SMSIS-05BMIM-PL7B 10 *	SMSIS-05BFIM-SL7B 10 *
		UL2517, PVC Jacket (Black)	SMSIS-05BMIM-PL7D 10 *	SMSIS-05BFIM-SL7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSIS-05BMIM-PL7N 10 *	SMSIS-05BFIM-SL7N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

MM FF A code  I code 	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSIP-05BFIM-SR7A 10 *
		UL20549, PUR Jacket	-	MSIP-05BFIM-SR7B 10 *
		UL2517, PVC Jacket (Black)	-	MSIP-05BFIM-SR7D 10 *
		UL20549, High Flex / Bending PUR	-	MSIP-05BFIM-SR7N 10 *
		UL2517, PVC Jacket (Yellow)	M12I-05BMIM-PR7A 10 *	M12I-05BFIM-SR7A 10 *
	Metal Nut	UL20549, PUR Jacket	M12I-05BMIM-PR7B 10 *	M12I-05BFIM-SR7B 10 *
		UL2517, PVC Jacket (Black)	M12I-05BMIM-PR7D 10 *	M12I-05BFIM-SR7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12I-05BMIM-PR7N 10 *	M12I-05BFIM-SR7N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSIS-05BMIM-PR7A 10 *	MSIS-05BFIM-SR7A 10 *
		UL20549, PUR Jacket	MSIS-05BMIM-PR7B 10 *	MSIS-05BFIM-SR7B 10 *
		UL2517, PVC Jacket (Black)	MSIS-05BMIM-PR7D 10 *	MSIS-05BFIM-SR7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSIS-05BMIM-PR7N 10 *	MSIS-05BFIM-SR7N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12I-05BMIM-PR7A 10 *	SM12I-05BFIM-SR7A 10 *
		UL20549, PUR Jacket	SM12I-05BMIM-PR7B 10 *	SM12I-05BFIM-SR7B 10 *
		UL2517, PVC Jacket (Black)	SM12I-05BMIM-PR7D 10 *	SM12I-05BFIM-SR7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12I-05BMIM-PR7N 10 *	SM12I-05BFIM-SR7N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSIS-05BMIM-PR7A 10 *	SMSIS-05BFIM-SR7A 10 *
		UL20549, PUR Jacket	SMSIS-05BMIM-PR7B 10 *	SMSIS-05BFIM-SR7B 10 *
		UL2517, PVC Jacket (Black)	SMSIS-05BMIM-PR7D 10 *	SMSIS-05BFIM-SR7D 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSIS-05BMIM-PR7N 10 *	SMSIS-05BFIM-SR7N 10 *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

6			8	
A			A	
30V			30V	
2A			2A	
MM	MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)
				
MSAP-06BMMM-SL8A 	-	MSAP-06BFFM-SL8A 	MSAP-08BMMM-SL8A 	-
MSAP-06BMMM-SL8B 	-	MSAP-06BFFM-SL8B 	MSAP-08BMMM-SL8B 	-
MSAP-06BMMM-SL8D 	-	MSAP-06BFFM-SL8D 	MSAP-08BMMM-SL8D 	-
-	-	-	MSAP-08BMMM-SL8E 	-
MSAP-06BMMM-SL8N 	-	MSAP-06BFFM-SL8N 	MSAP-08BMMM-SL8N 	-
M12A-06BMMM-SL8A 	M12A-06BMMM-PL8A 	M12A-06BFFM-SL8A 	M12A-08BMMM-SL8A 	M12A-08BMMM-PL8A 
M12A-06BMMM-SL8B 	M12A-06BMMM-PL8B 	M12A-06BFFM-SL8B 	M12A-08BMMM-SL8B 	M12A-08BMMM-PL8B 
M12A-06BMMM-SL8D 	M12A-06BMMM-PL8D 	M12A-06BFFM-SL8D 	M12A-08BMMM-SL8D 	M12A-08BMMM-PL8D 
-	-	-	M12A-08BMMM-SL8E 	M12A-08BMMM-PL8E 
M12A-06BMMM-SL8N 	M12A-06BMMM-PL8N 	M12A-06BFFM-SL8N 	M12A-08BMMM-SL8N 	M12A-08BMMM-PL8N 
MSAS-06BMMM-SL8A 	MSAS-06BMMM-PL8A 	MSAS-06BFFM-SL8A 	MSAS-08BMMM-SL8A 	MSAS-08BMMM-PL8A 
MSAS-06BMMM-SL8B 	MSAS-06BMMM-PL8B 	MSAS-06BFFM-SL8B 	MSAS-08BMMM-SL8B 	MSAS-08BMMM-PL8B 
MSAS-06BMMM-SL8D 	MSAS-06BMMM-PL8D 	MSAS-06BFFM-SL8D 	MSAS-08BMMM-SL8D 	MSAS-08BMMM-PL8D 
-	-	-	MSAS-08BMMM-SL8E 	MSAS-08BMMM-PL8E 
MSAS-06BMMM-SL8N 	MSAS-06BMMM-PL8N 	MSAS-06BFFM-SL8N 	MSAS-08BMMM-SL8N 	MSAS-08BMMM-PL8N 
SM12A-06BMMM-SL8A 	SM12A-06BMMM-PL8A 	SM12A-06BFFM-SL8A 	SM12A-08BMMM-SL8A 	SM12A-08BMMM-PL8A 
SM12A-06BMMM-SL8B 	SM12A-06BMMM-PL8B 	SM12A-06BFFM-SL8B 	SM12A-08BMMM-SL8B 	SM12A-08BMMM-PL8B 
SM12A-06BMMM-SL8D 	SM12A-06BMMM-PL8D 	SM12A-06BFFM-SL8D 	SM12A-08BMMM-SL8D 	SM12A-08BMMM-PL8D 
-	-	-	SM12A-08BMMM-SL8E 	SM12A-08BMMM-PL8E 
SM12A-06BMMM-SL8N 	SM12A-06BMMM-PL8N 	SM12A-06BFFM-SL8N 	SM12A-08BMMM-SL8N 	SM12A-08BMMM-PL8N 
SMSAS-06BMMM-SL8A 	SMSAS-06BMMM-PL8A 	SMSAS-06BFFM-SL8A 	SMSAS-08BMMM-SL8A 	SMSAS-08BMMM-PL8A 
SMSAS-06BMMM-SL8B 	SMSAS-06BMMM-PL8B 	SMSAS-06BFFM-SL8B 	SMSAS-08BMMM-SL8B 	SMSAS-08BMMM-PL8B 
SMSAS-06BMMM-SL8D 	SMSAS-06BMMM-PL8D 	SMSAS-06BFFM-SL8D 	SMSAS-08BMMM-SL8D 	SMSAS-08BMMM-PL8D 
-	-	-	SMSAS-08BMMM-SL8E 	SMSAS-08BMMM-PL8E 
SMSAS-06BMMM-SL8N 	SMSAS-06BMMM-PL8N 	SMSAS-06BFFM-SL8N 	SMSAS-08BMMM-SL8N 	SMSAS-08BMMM-PL8N 
MSAP-06BMMM-SR8A 	-	MSAP-06BFFM-SR8A 	MSAP-08BMMM-SR8A 	-
MSAP-06BMMM-SR8B 	-	MSAP-06BFFM-SR8B 	MSAP-08BMMM-SR8B 	-
MSAP-06BMMM-SR8D 	-	MSAP-06BFFM-SR8D 	MSAP-08BMMM-SR8D 	-
MSAP-06BMMM-SR8N 	-	MSAP-06BFFM-SR8N 	MSAP-08BMMM-SR8N 	-
M12A-06BMMM-SR8A 	M12A-06BMMM-PR8A 	M12A-06BFFM-SR8A 	M12A-08BMMM-SR8A 	M12A-08BMMM-PR8A 
M12A-06BMMM-SR8B 	M12A-06BMMM-PR8B 	M12A-06BFFM-SR8B 	M12A-08BMMM-SR8B 	M12A-08BMMM-PR8B 
M12A-06BMMM-SR8D 	M12A-06BMMM-PR8D 	M12A-06BFFM-SR8D 	M12A-08BMMM-SR8D 	M12A-08BMMM-PR8D 
-	-	-	M12A-08BMMM-SR8E 	M12A-08BMMM-PR8E 
M12A-06BMMM-SR8N 	M12A-06BMMM-PR8N 	M12A-06BFFM-SR8N 	M12A-08BMMM-SR8N 	M12A-08BMMM-PR8N 
MSAS-06BMMM-SR8A 	MSAS-06BMMM-PR8A 	MSAS-06BFFM-SR8A 	MSAS-08BMMM-SR8A 	MSAS-08BMMM-PR8A 
MSAS-06BMMM-SR8B 	MSAS-06BMMM-PR8B 	MSAS-06BFFM-SR8B 	MSAS-08BMMM-SR8B 	MSAS-08BMMM-PR8B 
MSAS-06BMMM-SR8D 	MSAS-06BMMM-PR8D 	MSAS-06BFFM-SR8D 	MSAS-08BMMM-SR8D 	MSAS-08BMMM-PR8D 
-	-	-	MSAS-08BMMM-SR8E 	MSAS-08BMMM-PR8E 
MSAS-06BMMM-SR8N 	MSAS-06BMMM-PR8N 	MSAS-06BFFM-SR8N 	MSAS-08BMMM-SR8N 	MSAS-08BMMM-PR8N 
SM12A-06BMMM-SR8A 	SM12A-06BMMM-PR8A 	SM12A-06BFFM-SR8A 	SM12A-08BMMM-SR8A 	SM12A-08BMMM-PR8A 
SM12A-06BMMM-SR8B 	SM12A-06BMMM-PR8B 	SM12A-06BFFM-SR8B 	SM12A-08BMMM-SR8B 	SM12A-08BMMM-PR8B 
SM12A-06BMMM-SR8D 	SM12A-06BMMM-PR8D 	SM12A-06BFFM-SR8D 	SM12A-08BMMM-SR8D 	SM12A-08BMMM-PR8D 
-	-	-	SM12A-08BMMM-SR8E 	SM12A-08BMMM-PR8E 
SM12A-06BMMM-SR8N 	SM12A-06BMMM-PR8N 	SM12A-06BFFM-SR8N 	SM12A-08BMMM-SR8N 	SM12A-08BMMM-PR8N 
SMSAS-06BMMM-SR8A 	SMSAS-06BMMM-PR8A 	SMSAS-06BFFM-SR8A 	SMSAS-08BMMM-SR8A 	SMSAS-08BMMM-PR8A 
SMSAS-06BMMM-SR8B 	SMSAS-06BMMM-PR8B 	SMSAS-06BFFM-SR8B 	SMSAS-08BMMM-SR8B 	SMSAS-08BMMM-PR8B 
SMSAS-06BMMM-SR8D 	SMSAS-06BMMM-PR8D 	SMSAS-06BFFM-SR8D 	SMSAS-08BMMM-SR8D 	SMSAS-08BMMM-PR8D 
-	-	-	SMSAS-08BMMM-SR8E 	SMSAS-08BMMM-PR8E 
SMSAS-06BMMM-SR8N	SMSAS-06BMMM-PR8N	SMSAS-06BFFM-SR8N	SMSAS-08BMMM-SR8N	SMSAS-08BMMM-PR8N

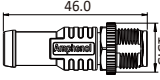
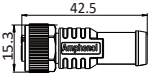
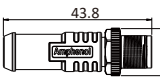
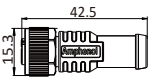
M12 A, X-Code

Screw Threaded (M12 * 1.0) Overmolded Cable

Number of Contacts	8	8
Coding	A	X (CAT.6A)
Rated Voltage (AC/DC)	30V	30V
Nominal current	2A	2A
Pin Assignment	FF	MM
MM : Male Connector Male Contact FF : Female Connector Female Contact		

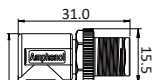
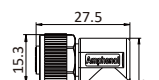
STRAIGHT, Overmolded Cable Assembly, Free Cable End

⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

MM  FF  A, Y code  X code 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-08BFFM-SL8A ⑩	-
		UL20549, PUR Jacket	MSAP-08BFFM-SL8B ⑩	-
		UL2517, PVC Jacket (Black)	MSAP-08BFFM-SL8D ⑩	-
		Cat. 5e, PUR Jacket	MSAP-08BFFM-SL8E ⑩ *	-
		UL20549, High Flex / Bending PUR	MSAP-08BFFM-SL8N ⑩ *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-08BFFM-SL8A ⑩	-
		UL20549, PUR Jacket	M12A-08BFFM-SL8B ⑩	-
		UL2517, PVC Jacket (Black)	M12A-08BFFM-SL8D ⑩	-
		Cat. 5e, PUR Jacket	M12A-08BFFM-SL8E ⑩ *	-
		UL20549, High Flex / Bending PUR	M12A-08BFFM-SL8N ⑩	-
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-08BFFM-SL8A ⑩ *	-
		UL20549, PUR Jacket	MSAS-08BFFM-SL8B ⑩	-
		UL2517, PVC Jacket (Black)	MSAS-08BFFM-SL8D ⑩	-
		Cat. 5e, PUR Jacket	MSAS-08BFFM-SL8E ⑩ *	-
		UL20549, High Flex / Bending PUR	MSAS-08BFFM-SL8N ⑩ *	MSXS-08BMMM-SL8N ⑩ *
	Stainless	Cat. 6A, PUR Jacket (LSZH)	-	MSXS-08BMMM-SL8X ⑩ *
		UL2517, PVC Jacket (Yellow)	SM12A-08BFFM-SL8A ⑩ *	-
		UL20549, PUR Jacket	SM12A-08BFFM-SL8B ⑩ *	-
		UL2517, PVC Jacket (Black)	SM12A-08BFFM-SL8D ⑩	-
		Cat. 5e, PUR Jacket	SM12A-08BFFM-SL8E ⑩ *	-
	Stainless Shielded	UL20549, High Flex / Bending PUR	SM12A-08BFFM-SL8N ⑩ *	-
		UL2517, PVC Jacket (Yellow)	SMSAS-08BFFM-SL8A ⑩ *	-
		UL20549, PUR Jacket	SMSAS-08BFFM-SL8B ⑩ *	-
		UL2517, PVC Jacket (Black)	SMSAS-08BFFM-SL8D ⑩ *	-
		Cat. 5e, PUR Jacket	SMSAS-08BFFM-SL8E ⑩ *	-
		UL20549, High Flex / Bending PUR	SMSAS-08BFFM-SL8N ⑩ *	SMSXS-08BMMM-SL8N ⑩ *
		Cat. 6A, PUR Jacket (LSZH)	-	SMSXS-08BMMM-SL8X ⑩ *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

MM  FF  A, Y code  X code 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-08BFFM-SR8A ⑩	-
		UL20549, PUR Jacket	MSAP-08BFFM-SR8B ⑩	-
		UL2517, PVC Jacket (Black)	MSAP-08BFFM-SR8D ⑩	-
		UL20549, High Flex / Bending PUR	MSAP-08BFFM-SR8N ⑩ *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-08BFFM-SR8A ⑩	-
		UL20549, PUR Jacket	M12A-08BFFM-SR8B ⑩	-
		UL2517, PVC Jacket (Black)	M12A-08BFFM-SR8D ⑩	-
		Cat. 5e, PUR Jacket	M12A-08BFFM-SR8E ⑩ *	-
		UL20549, High Flex / Bending PUR	M12A-08BFFM-SR8N ⑩ *	-
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-08BFFM-SR8A ⑩ *	-
		UL20549, PUR Jacket	MSAS-08BFFM-SR8B ⑩	-
		UL2517, PVC Jacket (Black)	MSAS-08BFFM-SR8D ⑩	-
		Cat. 5e, PUR Jacket	MSAS-08BFFM-SR8E ⑩ *	-
		UL20549, High Flex / Bending PUR	MSAS-08BFFM-SR8N ⑩ *	MSXS-08BMMM-SR8N ⑩ *
	Stainless	Cat. 6A, PUR Jacket (LSZH)	-	MSXS-08BMMM-SR8X ⑩ *
		UL2517, PVC Jacket (Yellow)	SM12A-08BFFM-SR8A ⑩ *	-
		UL20549, PUR Jacket	SM12A-08BFFM-SR8B ⑩ *	-
		UL2517, PVC Jacket (Black)	SM12A-08BFFM-SR8D ⑩ *	-
		Cat. 5e, PUR Jacket	SM12A-08BFFM-SR8E ⑩ *	-
	Stainless Shielded	UL20549, High Flex / Bending PUR	SM12A-08BFFM-SR8N ⑩ *	-
		UL2517, PVC Jacket (Yellow)	SMSAS-08BFFM-SR8A ⑩ *	-
		UL20549, PUR Jacket	SMSAS-08BFFM-SR8B ⑩ *	-
		UL2517, PVC Jacket (Black)	SMSAS-08BFFM-SR8D ⑩ *	-
		Cat. 5e, PUR Jacket	SMSAS-08BFFM-SR8E ⑩ *	-
		UL20549, High Flex / Bending PUR	SMSAS-08BFFM-SR8N ⑩ *	SMSXS-08BMMM-SR8N ⑩ *
		Cat. 6A, PUR Jacket (LSZH)	-	SMSXS-08BMMM-SR8X ⑩ *

* Upon Request ¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

M12 A, X, Y-Code

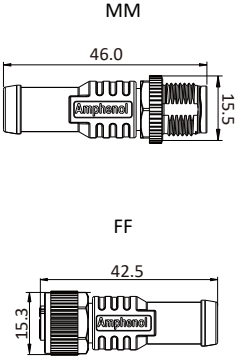
Screw Threaded (M12 * 1.0) Overmolded Cable

8		8		10
X (CAT.6A)		Y (Hybrid)*		A
30V		60V		30V
2A		0.5A / 6A		1.5A
MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)	MM
-	-	-	-	MSAP-10BMMM-SL8A
-	-	-	-	MSAP-10BMMM-SL8B
-	-	-	-	MSAP-10BMMM-SL8D
-	-	-	-	-
-	-	-	-	MSAP-10BMMM-SL8N *
-	-	-	-	M12A-10BMMM-SL8A
-	-	-	-	M12A-10BMMM-SL8B
-	-	-	-	M12A-10BMMM-SL8D
-	-	-	-	-
-	-	-	-	M12A-10BMMM-SL8N *
-	-	MSYS-08BMMM-SL8A *	MSYS-08BMMM-PL8A *	MSAS-10BMMM-SL8A *
-	-	MSYS-08BMMM-SL8B *	MSYS-08BMMM-PL8B *	MSAS-10BMMM-SL8B *
-	-	MSYS-08BMMM-SL8D *	MSYS-08BMMM-PL8D *	MSAS-10BMMM-SL8D *
-	-	-	-	-
MSXS-08BMMM-PL8N *	MSXS-08BFFM-SL8N *	-	-	MSAS-10BMMM-SL8N *
MSXS-08BMMM-PL8X	MSXS-08BFFM-SL8X *	-	-	-
-	-	-	-	SM12A-10BMMM-SL8A *
-	-	-	-	SM12A-10BMMM-SL8B *
-	-	-	-	SM12A-10BMMM-SL8D *
-	-	-	-	-
-	-	-	-	SM12A-10BMMM-SL8N *
-	-	SMSYS-08BMMM-SL8A *	SMSYS-08BMMM-PL8A *	SMSAS-10BMMM-SL8A *
-	-	SMSYS-08BMMM-SL8B *	SMSYS-08BMMM-PL8B *	SMSAS-10BMMM-SL8B *
-	-	SMSYS-08BMMM-SL8D *	SMSYS-08BMMM-PL8D *	SMSAS-10BMMM-SL8D *
-	-	-	-	-
SMSXS-08BMMM-PL8N *	SMSXS-08BFFM-SL8N *	-	-	SMSAS-10BMMM-SL8N *
SMSXS-08BMMM-PL8X *	SMSXS-08BFFM-SL8X *	-	-	-
-	-	-	-	MSAP-10BMMM-SR8A
-	-	-	-	MSAP-10BMMM-SR8B
-	-	-	-	MSAP-10BMMM-SR8D
-	-	-	-	MSAP-10BMMM-SR8N *
-	-	-	-	M12A-10BMMM-SR8A
-	-	-	-	M12A-10BMMM-SR8B
-	-	-	-	M12A-10BMMM-SR8D
-	-	-	-	-
-	-	-	-	M12A-10BMMM-SR8N *
-	-	MSYS-08BMMM-SR8A *	MSYS-08BMMM-PR8A *	MSAS-10BMMM-SR8A *
-	-	MSYS-08BMMM-SR8B *	MSYS-08BMMM-PR8B *	MSAS-10BMMM-SR8B *
-	-	MSYS-08BMMM-SR8D *	MSYS-08BMMM-PR8D *	MSAS-10BMMM-SR8D *
-	-	-	-	-
MSXS-08BMMM-PR8N *	MSXS-08BFFM-SR8N *	-	-	MSAS-10BMMM-SR8N *
MSXS-08BMMM-PR8X	MSXS-08BFFM-SR8X *	-	-	-
-	-	-	-	SM12A-10BMMM-SR8A *
-	-	-	-	SM12A-10BMMM-SR8B *
-	-	-	-	SM12A-10BMMM-SR8D *
-	-	-	-	-
-	-	-	-	SM12A-10BMMM-SR8N *
-	-	SMSYS-08BMMM-SR8A *	SMSYS-08BMMM-PR8A *	SMSAS-10BMMM-SR8A *
-	-	SMSYS-08BMMM-SR8B *	SMSYS-08BMMM-PR8B *	SMSAS-10BMMM-SR8B *
-	-	SMSYS-08BMMM-SR8D *	SMSYS-08BMMM-PR8D *	SMSAS-10BMMM-SR8D *
-	-	-	-	-
SMSXS-08BMMM-PR8N *	SMSXS-08BFFM-SR8N *	-	-	SMSAS-10BMMM-SR8N *
SMSXS-08BMMM-PR8X *	SMSXS-08BFFM-SR8X *	-	-	-

Number of Contacts	10	
Coding	A	
Rated Voltage (AC/DC)	30V	
Nominal current	1.5A	
Pin Assignment	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact		

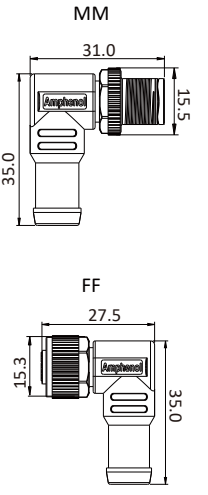
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSAP-10BFFM-SL8A 10
		UL20549, PUR Jacket	-	MSAP-10BFFM-SL8B 10
		UL2517, PVC Jacket (Black)	-	MSAP-10BFFM-SL8D 10
		UL20549, High Flex / Bending PUR	-	MSAP-10BFFM-SL8N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-10BMMM-PL8A 10 *	M12A-10BFFM-SL8A 10
		UL20549, PUR Jacket	M12A-10BMMM-PL8B 10 *	M12A-10BFFM-SL8B 10
		UL2517, PVC Jacket (Black)	M12A-10BMMM-PL8D 10 *	M12A-10BFFM-SL8D 10
		UL20549, High Flex / Bending PUR	M12A-10BMMM-PL8N 10 *	M12A-10BFFM-SL8N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-10BMMM-PL8A 10 *	MSAS-10BFFM-SL8A 10 *
		UL20549, PUR Jacket	MSAS-10BMMM-PL8B 10 *	MSAS-10BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	MSAS-10BMMM-PL8D 10 *	MSAS-10BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	MSAS-10BMMM-PL8N 10 *	MSAS-10BFFM-SL8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-10BMMM-PL8A 10 *	SM12A-10BFFM-SL8A 10 *
		UL20549, PUR Jacket	SM12A-10BMMM-PL8B 10 *	SM12A-10BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-10BMMM-PL8D 10 *	SM12A-10BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	SM12A-10BMMM-PL8N 10 *	SM12A-10BFFM-SL8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-10BMMM-PL8A 10 *	SMSAS-10BFFM-SL8A 10 *
		UL20549, PUR Jacket	SMSAS-10BMMM-PL8B 10 *	SMSAS-10BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-10BMMM-PL8D 10 *	SMSAS-10BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	SMSAS-10BMMM-PL8N 10 *	SMSAS-10BFFM-SL8N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSAP-10BFFM-SR8A 10
		UL20549, PUR Jacket	-	MSAP-10BFFM-SR8B 10
		UL2517, PVC Jacket (Black)	-	MSAP-10BFFM-SR8D 10
		UL20549, High Flex / Bending PUR	-	MSAP-10BFFM-SR8N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-10BMMM-PR8A 10 *	M12A-10BFFM-SR8A 10
		UL20549, PUR Jacket	M12A-10BMMM-PR8B 10 *	M12A-10BFFM-SR8B 10
		UL2517, PVC Jacket (Black)	M12A-10BMMM-PR8D 10 *	M12A-10BFFM-SR8D 10
		UL20549, High Flex / Bending PUR	M12A-10BMMM-PR8N 10 *	M12A-10BFFM-SR8N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-10BMMM-PR8A 10 *	MSAS-10BFFM-SR8A 10 *
		UL20549, PUR Jacket	MSAS-10BMMM-PR8B 10 *	MSAS-10BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	MSAS-10BMMM-PR8D 10 *	MSAS-10BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	MSAS-10BMMM-PR8N 10 *	MSAS-10BFFM-SR8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-10BMMM-PR8A 10 *	SM12A-10BFFM-SR8A 10 *
		UL20549, PUR Jacket	SM12A-10BMMM-PR8B 10 *	SM12A-10BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-10BMMM-PR8D 10 *	SM12A-10BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	SM12A-10BMMM-PR8N 10 *	SM12A-10BFFM-SR8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-10BMMM-PR8A 10 *	SMSAS-10BFFM-SR8A 10 *
		UL20549, PUR Jacket	SMSAS-10BMMM-PR8B 10 *	SMSAS-10BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-10BMMM-PR8D 10 *	SMSAS-10BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	SMSAS-10BMMM-PR8N 10 *	SMSAS-10BFFM-SR8N 10 *

* Upon Request

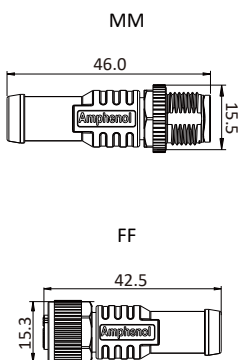
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

12			17	
A			A	
30V			30V	
1.5A			1.5A	
MM	MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)
				
MSAP-12BMMM-SL8A 	-	MSAP-12BFFM-SL8A 	MSAP-17BMMM-SL8A 	-
MSAP-12BMMM-SL8B 	-	MSAP-12BFFM-SL8B 	MSAP-17BMMM-SL8B 	-
MSAP-12BMMM-SL8D 	-	MSAP-12BFFM-SL8D 	MSAP-17BMMM-SL8D 	-
MSAP-12BMMM-SL8N 	-	MSAP-12BFFM-SL8N 	MSAP-17BMMM-SL8N 	-
M12A-12BMMM-SL8A 	M12A-12BMMM-PL8A 	M12A-12BFFM-SL8A 	M12A-17BMMM-SL8A 	M12A-17BMMM-PL8A 
M12A-12BMMM-SL8B 	M12A-12BMMM-PL8B 	M12A-12BFFM-SL8B 	M12A-17BMMM-SL8B 	M12A-17BMMM-PL8B 
M12A-12BMMM-SL8D 	M12A-12BMMM-PL8D 	M12A-12BFFM-SL8D 	M12A-17BMMM-SL8D 	M12A-17BMMM-PL8D 
M12A-12BMMM-SL8N 	M12A-12BMMM-PL8N 	M12A-12BFFM-SL8N 	M12A-17BMMM-SL8N 	M12A-17BMMM-PL8N 
MSAS-12BMMM-SL8A 	MSAS-12BMMM-PL8A 	MSAS-12BFFM-SL8A 	MSAS-17BMMM-SL8A 	MSAS-17BMMM-PL8A 
MSAS-12BMMM-SL8B 	MSAS-12BMMM-PL8B 	MSAS-12BFFM-SL8B 	MSAS-17BMMM-SL8B 	MSAS-17BMMM-PL8B 
MSAS-12BMMM-SL8D 	MSAS-12BMMM-PL8D 	MSAS-12BFFM-SL8D 	MSAS-17BMMM-SL8D 	MSAS-17BMMM-PL8D 
MSAS-12BMMM-SL8N 	MSAS-12BMMM-PL8N 	MSAS-12BFFM-SL8N 	MSAS-17BMMM-SL8N 	MSAS-17BMMM-PL8N 
SM12A-12BMMM-SL8A 	SM12A-12BMMM-PL8A 	SM12A-12BFFM-SL8A 	SM12A-17BMMM-SL8A 	SM12A-17BMMM-PL8A 
SM12A-12BMMM-SL8B 	SM12A-12BMMM-PL8B 	SM12A-12BFFM-SL8B 	SM12A-17BMMM-SL8B 	SM12A-17BMMM-PL8B 
SM12A-12BMMM-SL8D 	SM12A-12BMMM-PL8D 	SM12A-12BFFM-SL8D 	SM12A-17BMMM-SL8D 	SM12A-17BMMM-PL8D 
SM12A-12BMMM-SL8N 	SM12A-12BMMM-PL8N 	SM12A-12BFFM-SL8N 	SM12A-17BMMM-SL8N 	SM12A-17BMMM-PL8N 
SMSAS-12BMMM-SL8A 	SMSAS-12BMMM-PL8A 	SMSAS-12BFFM-SL8A 	SMSAS-17BMMM-SL8A 	SMSAS-17BMMM-PL8A 
SMSAS-12BMMM-SL8B 	SMSAS-12BMMM-PL8B 	SMSAS-12BFFM-SL8B 	SMSAS-17BMMM-SL8B 	SMSAS-17BMMM-PL8B 
SMSAS-12BMMM-SL8D 	SMSAS-12BMMM-PL8D 	SMSAS-12BFFM-SL8D 	SMSAS-17BMMM-SL8D 	SMSAS-17BMMM-PL8D 
SMSAS-12BMMM-SL8N 	SMSAS-12BMMM-PL8N 	SMSAS-12BFFM-SL8N 	SMSAS-17BMMM-SL8N 	SMSAS-17BMMM-PL8N 
MSAP-12BMMM-SR8A 	-	MSAP-12BFFM-SR8A 	MSAP-17BMMM-SR8A 	-
MSAP-12BMMM-SR8B 	-	MSAP-12BFFM-SR8B 	MSAP-17BMMM-SR8B 	-
MSAP-12BMMM-SR8D 	-	MSAP-12BFFM-SR8D 	MSAP-17BMMM-SR8D 	-
MSAP-12BMMM-SR8N 	-	MSAP-12BFFM-SR8N 	MSAP-17BMMM-SR8N 	-
M12A-12BMMM-SR8A 	M12A-12BMMM-PR8A 	M12A-12BFFM-SR8A 	M12A-17BMMM-SR8A 	M12A-17BMMM-PR8A 
M12A-12BMMM-SR8B 	M12A-12BMMM-PR8B 	M12A-12BFFM-SR8B 	M12A-17BMMM-SR8B 	M12A-17BMMM-PR8B 
M12A-12BMMM-SR8D 	M12A-12BMMM-PR8D 	M12A-12BFFM-SR8D 	M12A-17BMMM-SR8D 	M12A-17BMMM-PR8D 
M12A-12BMMM-SR8N 	M12A-12BMMM-PR8N 	M12A-12BFFM-SR8N 	M12A-17BMMM-SR8N 	M12A-17BMMM-PR8N 
MSAS-12BMMM-SR8A 	MSAS-12BMMM-PR8A 	MSAS-12BFFM-SR8A 	MSAS-17BMMM-SR8A 	MSAS-17BMMM-PR8A 
MSAS-12BMMM-SR8B 	MSAS-12BMMM-PR8B 	MSAS-12BFFM-SR8B 	MSAS-17BMMM-SR8B 	MSAS-17BMMM-PR8B 
MSAS-12BMMM-SR8D 	MSAS-12BMMM-PR8D 	MSAS-12BFFM-SR8D 	MSAS-17BMMM-SR8D 	MSAS-17BMMM-PR8D 
MSAS-12BMMM-SR8N 	MSAS-12BMMM-PR8N 	MSAS-12BFFM-SR8N 	MSAS-17BMMM-SR8N 	MSAS-17BMMM-PR8N 
SM12A-12BMMM-SR8A 	SM12A-12BMMM-PR8A 	SM12A-12BFFM-SR8A 	SM12A-17BMMM-SR8A 	SM12A-17BMMM-PR8A 
SM12A-12BMMM-SR8B 	SM12A-12BMMM-PR8B 	SM12A-12BFFM-SR8B 	SM12A-17BMMM-SR8B 	SM12A-17BMMM-PR8B 
SM12A-12BMMM-SR8D 	SM12A-12BMMM-PR8D 	SM12A-12BFFM-SR8D 	SM12A-17BMMM-SR8D 	SM12A-17BMMM-PR8D 
SM12A-12BMMM-SR8N 	SM12A-12BMMM-PR8N 	SM12A-12BFFM-SR8N 	SM12A-17BMMM-SR8N 	SM12A-17BMMM-PR8N 
SMSAS-12BMMM-SR8A 	SMSAS-12BMMM-PR8A 	SMSAS-12BFFM-SR8A 	SMSAS-17BMMM-SR8A 	SMSAS-17BMMM-PR8A 
SMSAS-12BMMM-SR8B 	SMSAS-12BMMM-PR8B 	SMSAS-12BFFM-SR8B 	SMSAS-17BMMM-SR8B 	SMSAS-17BMMM-PR8B 
SMSAS-12BMMM-SR8D 	SMSAS-12BMMM-PR8D 	SMSAS-12BFFM-SR8D 	SMSAS-17BMMM-SR8D 	SMSAS-17BMMM-PR8D 
SMSAS-12BMMM-SR8N	SMSAS-12BMMM-PR8N	SMSAS-12BFFM-SR8N	SMSAS-17BMMM-SR8N	SMSAS-17BMMM-PR8N

Number of Contacts	17
Coding	A
Rated Voltage (AC/DC)	30V
Nominal current	1.5A
Pin Assignment	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact	

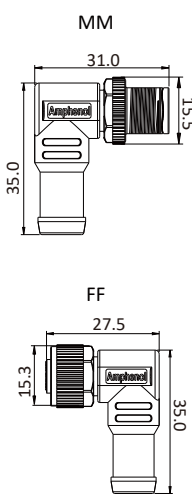
STRAIGHT, Overmolded Cable Assembly, Free Cable End

¹⁰ Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-17BFFM-SL8A ¹⁰ *
		UL20549, PUR Jacket	MSAP-17BFFM-SL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAP-17BFFM-SL8D ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAP-17BFFM-SL8N ¹⁰ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-17BFFM-SL8A ¹⁰
		UL20549, PUR Jacket	M12A-17BFFM-SL8B ¹⁰
		UL2517, PVC Jacket (Black)	M12A-17BFFM-SL8D ¹⁰
		UL20549, High Flex / Bending PUR	M12A-17BFFM-SL8N ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-17BFFM-SL8A ¹⁰ *
		UL20549, PUR Jacket	MSAS-17BFFM-SL8B ¹⁰
		UL2517, PVC Jacket (Black)	MSAS-17BFFM-SL8D ¹⁰
		UL20549, High Flex / Bending PUR	MSAS-17BFFM-SL8N ¹⁰ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-17BFFM-SL8A ¹⁰ *
		UL20549, PUR Jacket	SM12A-17BFFM-SL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A-17BFFM-SL8D ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12A-17BFFM-SL8N ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-17BFFM-SL8A ¹⁰ *
		UL20549, PUR Jacket	SMSAS-17BFFM-SL8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS-17BFFM-SL8D ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS-17BFFM-SL8N ¹⁰ *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

¹⁰ Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-17BFFM-SR8A ¹⁰ *
		UL20549, PUR Jacket	MSAP-17BFFM-SR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAP-17BFFM-SR8D ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAP-17BFFM-SR8N ¹⁰ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-17BFFM-SR8A ¹⁰ *
		UL20549, PUR Jacket	M12A-17BFFM-SR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	M12A-17BFFM-SR8D ¹⁰ *
		UL20549, High Flex / Bending PUR	M12A-17BFFM-SR8N ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-17BFFM-SR8A ¹⁰ *
		UL20549, PUR Jacket	MSAS-17BFFM-SR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAS-17BFFM-SR8D ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAS-17BFFM-SR8N ¹⁰ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-17BFFM-SR8A ¹⁰ *
		UL20549, PUR Jacket	SM12A-17BFFM-SR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A-17BFFM-SR8D ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12A-17BFFM-SR8N ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-17BFFM-SR8A ¹⁰ *
		UL20549, PUR Jacket	SMSAS-17BFFM-SR8B ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS-17BFFM-SR8D ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS-17BFFM-SR8N ¹⁰ *

* Upon Request

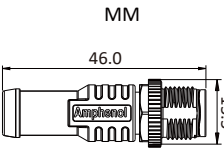
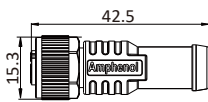
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

18			24	
A			A	
30V			30V	
0.5A			0.5A	
MM	MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)
				
MSAP-18BMMM-SL8A 	-	MSAP-18BFFM-SL8A 	MSAP-24BMMM-SL8A 	-
MSAP-18BMMM-SL8B 	-	MSAP-18BFFM-SL8B 	MSAP-24BMMM-SL8B 	-
MSAP-18BMMM-SL8D 	-	MSAP-18BFFM-SL8D 	MSAP-24BMMM-SL8D 	-
MSAP-18BMMM-SL8N 	-	MSAP-18BFFM-SL8N 	MSAP-24BMMM-SL8N 	-
M12A-18BMMM-SL8A 	M12A-18BMMM-PL8A 	M12A-18BFFM-SL8A 	M12A-24BMMM-SL8A 	M12A-24BMMM-PL8A 
M12A-18BMMM-SL8B 	M12A-18BMMM-PL8B 	M12A-18BFFM-SL8B 	M12A-24BMMM-SL8B 	M12A-24BMMM-PL8B 
M12A-18BMMM-SL8D 	M12A-18BMMM-PL8D 	M12A-18BFFM-SL8D 	M12A-24BMMM-SL8D 	M12A-24BMMM-PL8D 
M12A-18BMMM-SL8N 	M12A-18BMMM-PL8N 	M12A-18BFFM-SL8N 	M12A-24BMMM-SL8N 	M12A-24BMMM-PL8N 
MSAS-18BMMM-SL8A 	MSAS-18BMMM-PL8A 	MSAS-18BFFM-SL8A 	MSAS-24BMMM-SL8A 	MSAS-24BMMM-PL8A 
MSAS-18BMMM-SL8B 	MSAS-18BMMM-PL8B 	MSAS-18BFFM-SL8B 	MSAS-24BMMM-SL8B 	MSAS-24BMMM-PL8B 
MSAS-18BMMM-SL8D 	MSAS-18BMMM-PL8D 	MSAS-18BFFM-SL8D 	MSAS-24BMMM-SL8D 	MSAS-24BMMM-PL8D 
MSAS-18BMMM-SL8N 	MSAS-18BMMM-PL8N 	MSAS-18BFFM-SL8N 	MSAS-24BMMM-SL8N 	MSAS-24BMMM-PL8N 
SM12A-18BMMM-SL8A 	SM12A-18BMMM-PL8A 	SM12A-18BFFM-SL8A 	SM12A-24BMMM-SL8A 	SM12A-24BMMM-PL8A 
SM12A-18BMMM-SL8B 	SM12A-18BMMM-PL8B 	SM12A-18BFFM-SL8B 	SM12A-24BMMM-SL8B 	SM12A-24BMMM-PL8B 
SM12A-18BMMM-SL8D 	SM12A-18BMMM-PL8D 	SM12A-18BFFM-SL8D 	SM12A-24BMMM-SL8D 	SM12A-24BMMM-PL8D 
SM12A-18BMMM-SL8N 	SM12A-18BMMM-PL8N 	SM12A-18BFFM-SL8N 	SM12A-24BMMM-SL8N 	SM12A-24BMMM-PL8N 
SMSAS-18BMMM-SL8A 	SMSAS-18BMMM-PL8A 	SMSAS-18BFFM-SL8A 	SMSAS-24BMMM-SL8A 	SMSAS-24BMMM-PL8A 
SMSAS-18BMMM-SL8B 	SMSAS-18BMMM-PL8B 	SMSAS-18BFFM-SL8B 	SMSAS-24BMMM-SL8B 	SMSAS-24BMMM-PL8B 
SMSAS-18BMMM-SL8D 	SMSAS-18BMMM-PL8D 	SMSAS-18BFFM-SL8D 	SMSAS-24BMMM-SL8D 	SMSAS-24BMMM-PL8D 
SMSAS-18BMMM-SL8N 	SMSAS-18BMMM-PL8N 	SMSAS-18BFFM-SL8N 	SMSAS-24BMMM-SL8N 	SMSAS-24BMMM-PL8N 
MSAP-18BMMM-SR8A 	-	MSAP-18BFFM-SR8A 	MSAP-24BMMM-SR8A 	-
MSAP-18BMMM-SR8B 	-	MSAP-18BFFM-SR8B 	MSAP-24BMMM-SR8B 	-
MSAP-18BMMM-SR8D 	-	MSAP-18BFFM-SR8D 	MSAP-24BMMM-SR8D 	-
MSAP-18BMMM-SR8N 	-	MSAP-18BFFM-SR8N 	MSAP-24BMMM-SR8N 	-
M12A-18BMMM-SR8A 	M12A-18BMMM-PR8A 	M12A-18BFFM-SR8A 	M12A-24BMMM-SR8A 	M12A-24BMMM-PR8A 
M12A-18BMMM-SR8B 	M12A-18BMMM-PR8B 	M12A-18BFFM-SR8B 	M12A-24BMMM-SR8B 	M12A-24BMMM-PR8B 
M12A-18BMMM-SR8D 	M12A-18BMMM-PR8D 	M12A-18BFFM-SR8D 	M12A-24BMMM-SR8D 	M12A-24BMMM-PR8D 
M12A-18BMMM-SR8N 	M12A-18BMMM-PR8N 	M12A-18BFFM-SR8N 	M12A-24BMMM-SR8N 	M12A-24BMMM-PR8N 
MSAS-18BMMM-SR8A 	MSAS-18BMMM-PR8A 	MSAS-18BFFM-SR8A 	MSAS-24BMMM-SR8A 	MSAS-24BMMM-PR8A 
MSAS-18BMMM-SR8B 	MSAS-18BMMM-PR8B 	MSAS-18BFFM-SR8B 	MSAS-24BMMM-SR8B 	MSAS-24BMMM-PR8B 
MSAS-18BMMM-SR8D 	MSAS-18BMMM-PR8D 	MSAS-18BFFM-SR8D 	MSAS-24BMMM-SR8D 	MSAS-24BMMM-PR8D 
MSAS-18BMMM-SR8N 	MSAS-18BMMM-PR8N 	MSAS-18BFFM-SR8N 	MSAS-24BMMM-SR8N 	MSAS-24BMMM-PR8N 
SM12A-18BMMM-SR8A 	SM12A-18BMMM-PR8A 	SM12A-18BFFM-SR8A 	SM12A-24BMMM-SR8A 	SM12A-24BMMM-PR8A 
SM12A-18BMMM-SR8B 	SM12A-18BMMM-PR8B 	SM12A-18BFFM-SR8B 	SM12A-24BMMM-SR8B 	SM12A-24BMMM-PR8B 
SM12A-18BMMM-SR8D 	SM12A-18BMMM-PR8D 	SM12A-18BFFM-SR8D 	SM12A-24BMMM-SR8D 	SM12A-24BMMM-PR8D 
SM12A-18BMMM-SR8N 	SM12A-18BMMM-PR8N 	SM12A-18BFFM-SR8N 	SM12A-24BMMM-SR8N 	SM12A-24BMMM-PR8N 
SMSAS-18BMMM-SR8A 	SMSAS-18BMMM-PR8A 	SMSAS-18BFFM-SR8A 	SMSAS-24BMMM-SR8A 	SMSAS-24BMMM-PR8A 
SMSAS-18BMMM-SR8B 	SMSAS-18BMMM-PR8B 	SMSAS-18BFFM-SR8B 	SMSAS-24BMMM-SR8B 	SMSAS-24BMMM-PR8B 
SMSAS-18BMMM-SR8D	SMSAS-18BMMM-PR8D	SMSAS-18BFFM-SR8D	SMSAS-24BMMM-SR8D	SMSAS-24BMMM-PR8D
SMSAS-18BMMM-SR8N	SMSAS-18BMMM-PR8N	SMSAS-18BFFM-SR8N	SMSAS-24BMMM-SR8N	SMSAS-24BMMM-PR8N

Number of Contacts	24	28		
Coding	A	A		
Rated Voltage (AC/DC)	30V	30V		
Nominal current	0.5A	0.5A		
Pin Assignment	FF	MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact				

STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-24BFFM-SL8A 10 *	MSAP-28BMMM-SL8A 10 *	-	MSAP-28BFFM-SL8A 10 *
		UL20549, PUR Jacket	MSAP-24BFFM-SL8B 10 *	MSAP-28BMMM-SL8B 10 *	-	MSAP-28BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	MSAP-24BFFM-SL8D 10 *	MSAP-28BMMM-SL8D 10 *	-	MSAP-28BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	MSAP-24BFFM-SL8N 10 *	MSAP-28BMMM-SL8N 10 *	-	MSAP-28BFFM-SL8N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-24BFFM-SL8A 10 *	M12A-28BMMM-SL8A 10 *	M12A-28BMMM-PL8A 10 *	M12A-28BFFM-SL8A 10 *
		UL20549, PUR Jacket	M12A-24BFFM-SL8B 10 *	M12A-28BMMM-SL8B 10 *	M12A-28BMMM-PL8B 10 *	M12A-28BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	M12A-24BFFM-SL8D 10 *	M12A-28BMMM-SL8D 10 *	M12A-28BMMM-PL8D 10 *	M12A-28BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	M12A-24BFFM-SL8N 10 *	M12A-28BMMM-SL8N 10 *	M12A-28BMMM-PL8N 10 *	M12A-28BFFM-SL8N 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-24BFFM-SL8A 10 *	MSAS-28BMMM-SL8A 10 *	MSAS-28BMMM-PL8A 10 *	MSAS-28BFFM-SL8A 10 *
		UL20549, PUR Jacket	MSAS-24BFFM-SL8B 10 *	MSAS-28BMMM-SL8B 10 *	MSAS-28BMMM-PL8B 10 *	MSAS-28BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	MSAS-24BFFM-SL8D 10 *	MSAS-28BMMM-SL8D 10 *	MSAS-28BMMM-PL8D 10 *	MSAS-28BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	MSAS-24BFFM-SL8N 10 *	MSAS-28BMMM-SL8N 10 *	MSAS-28BMMM-PL8N 10 *	MSAS-28BFFM-SL8N 10 *

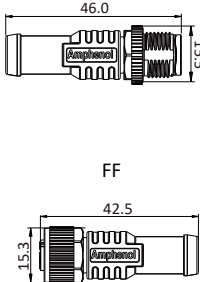
* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts	24	28		
Coding	A	A		
Rated Voltage (AC/DC)	30V	30V		
Nominal current	0.5A	0.5A		
Pin Assignment	FF	MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact				

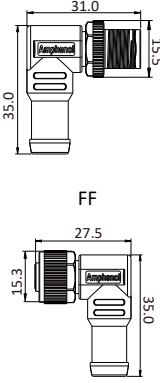
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-24BFFM-SL8A 10 *	SM12A-28BMMM-SL8A 10 *	SM12A-28BMMM-PL8A 10 *	SM12A-28BFFM-SL8A 10 *
		UL20549, PUR Jacket	SM12A-24BFFM-SL8B 10 *	SM12A-28BMMM-SL8B 10 *	SM12A-28BMMM-PL8B 10 *	SM12A-28BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-24BFFM-SL8D 10 *	SM12A-28BMMM-SL8D 10 *	SM12A-28BMMM-PL8D 10 *	SM12A-28BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	SM12A-24BFFM-SL8N 10 *	SM12A-28BMMM-SL8N 10 *	SM12A-28BMMM-PL8N 10 *	SM12A-28BFFM-SL8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-24BFFM-SL8A 10 *	SMSAS-28BMMM-SL8A 10 *	SMSAS-28BMMM-PL8A 10 *	SMSAS-28BFFM-SL8A 10 *
		UL20549, PUR Jacket	SMSAS-24BFFM-SL8B 10 *	SMSAS-28BMMM-SL8B 10 *	SMSAS-28BMMM-PL8B 10 *	SMSAS-28BFFM-SL8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-24BFFM-SL8D 10 *	SMSAS-28BMMM-SL8D 10 *	SMSAS-28BMMM-PL8D 10 *	SMSAS-28BFFM-SL8D 10 *
		UL20549, High Flex / Bending PUR	SMSAS-24BFFM-SL8N 10 *	SMSAS-28BMMM-SL8N 10 *	SMSAS-28BMMM-PL8N 10 *	SMSAS-28BFFM-SL8N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP-24BFFM-SR8A 10 *	MSAP-28BMMM-SR8A 10 *	-	MSAP-28BFFM-SR8A 10 *
		UL20549, PUR Jacket	MSAP-24BFFM-SR8B 10 *	MSAP-28BMMM-SR8B 10 *	-	MSAP-28BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	MSAP-24BFFM-SR8D 10 *	MSAP-28BMMM-SR8D 10 *	-	MSAP-28BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	MSAP-24BFFM-SR8N 10 *	MSAP-28BMMM-SR8N 10 *	-	MSAP-28BFFM-SR8N 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A-24BFFM-SR8A 10 *	M12A-28BMMM-SR8A 10 *	M12A-28BMMM-PR8A 10 *	M12A-28BFFM-SR8A 10 *
		UL20549, PUR Jacket	M12A-24BFFM-SR8B 10 *	M12A-28BMMM-SR8B 10 *	M12A-28BMMM-PR8B 10 *	M12A-28BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	M12A-24BFFM-SR8D 10 *	M12A-28BMMM-SR8D 10 *	M12A-28BMMM-PR8D 10 *	M12A-28BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	M12A-24BFFM-SR8N 10 *	M12A-28BMMM-SR8N 10 *	M12A-28BMMM-PR8N 10 *	M12A-28BFFM-SR8N 10 *

Number of Contacts	24	28		
Coding	A	A		
Rated Voltage (AC/DC)	30V	30V		
Nominal current	0.5A	0.5A		
Pin Assignment	FF	MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact				

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	Shielded	UL2517, PVC Jacket (Yellow)	MSAS-24BFFM-SR8A 10 *	MSAS-28BMMM-SR8A 10 *	MSAS-28BMMM-PR8A 10 *	MSAS-28BFFM-SR8A 10 *
		UL20549, PUR Jacket	MSAS-24BFFM-SR8B 10 *	MSAS-28BMMM-SR8B 10 *	MSAS-28BMMM-PR8B 10 *	MSAS-28BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	MSAS-24BFFM-SR8D 10 *	MSAS-28BMMM-SR8D 10 *	MSAS-28BMMM-PR8D 10 *	MSAS-28BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	MSAS-24BFFM-SR8N 10 *	MSAS-28BMMM-SR8N 10 *	MSAS-28BMMM-PR8N 10 *	MSAS-28BFFM-SR8N 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A-24BFFM-SR8A 10 *	SM12A-28BMMM-SR8A 10 *	SM12A-28BMMM-PR8A 10 *	SM12A-28BFFM-SR8A 10 *
		UL20549, PUR Jacket	SM12A-24BFFM-SR8B 10 *	SM12A-28BMMM-SR8B 10 *	SM12A-28BMMM-PR8B 10 *	SM12A-28BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	SM12A-24BFFM-SR8D 10 *	SM12A-28BMMM-SR8D 10 *	SM12A-28BMMM-PR8D 10 *	SM12A-28BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	SM12A-24BFFM-SR8N 10 *	SM12A-28BMMM-SR8N 10 *	SM12A-28BMMM-PR8N 10 *	SM12A-28BFFM-SR8N 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS-24BFFM-SR8A 10 *	SMSAS-28BMMM-SR8A 10 *	SMSAS-28BMMM-PR8A 10 *	SMSAS-28BFFM-SR8A 10 *
		UL20549, PUR Jacket	SMSAS-24BFFM-SR8B 10 *	SMSAS-28BMMM-SR8B 10 *	SMSAS-28BMMM-PR8B 10 *	SMSAS-28BFFM-SR8B 10 *
		UL2517, PVC Jacket (Black)	SMSAS-24BFFM-SR8D 10 *	SMSAS-28BMMM-SR8D 10 *	SMSAS-28BMMM-PR8D 10 *	SMSAS-28BFFM-SR8D 10 *
		UL20549, High Flex / Bending PUR	SMSAS-24BFFM-SR8N 10 *	SMSAS-28BMMM-SR8N 10 *	SMSAS-28BMMM-PR8N 10 *	SMSAS-28BFFM-SR8N 10 *

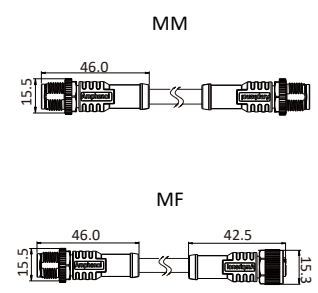
* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts	3	
Coding	A	
Rated Voltage (AC/DC)	250V	
Nominal current	4A	
Pin Assignment	MM	MF
MM: Male Connector Male Contact MF: Male Connector Female Contact		

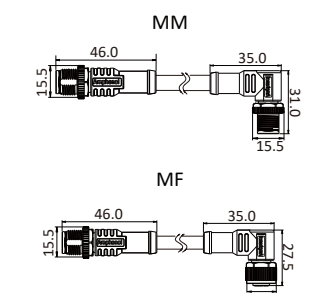
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP03ML-SAPML-SA ⑩*	MSAP03ML-SAPFL-SA ⑩*
		UL20549, PUR Jacket	MSAP03ML-SAPML-SB ⑩	MSAP03ML-SAPFL-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP03ML-SAPML-SD ⑩	MSAP03ML-SAPFL-SD ⑩
		UL20549, High Flex / Bending PUR	MSAP03ML-SAPML-SN ⑩*	MSAP03ML-SAPFL-SN ⑩*
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A03ML-12AML-SA ⑩*	M12A03ML-12AFL-SA ⑩*
		UL20549, PUR Jacket	M12A03ML-12AML-SB ⑩	M12A03ML-12AFL-SB ⑩
		UL2517, PVC Jacket (Black)	M12A03ML-12AML-SD ⑩	M12A03ML-12AFL-SD ⑩
		UL20549, High Flex / Bending PUR	M12A03ML-12AML-SN ⑩*	M12A03ML-12AFL-SN ⑩*
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS03ML-SASML-SA ⑩*	MSAS03ML-SASFL-SA ⑩*
		UL20549, PUR Jacket	MSAS03ML-SASML-SB ⑩*	MSAS03ML-SASFL-SB ⑩*
		UL2517, PVC Jacket (Black)	MSAS03ML-SASML-SD ⑩*	MSAS03ML-SASFL-SD ⑩*
		UL20549, High Flex / Bending PUR	MSAS03ML-SASML-SN ⑩*	MSAS03ML-SASFL-SN ⑩*
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A03ML-12AML-SA ⑩*	SM12A03ML-12AFL-SA ⑩*
		UL20549, PUR Jacket	SM12A03ML-12AML-SB ⑩*	SM12A03ML-12AFL-SB ⑩*
		UL2517, PVC Jacket (Black)	SM12A03ML-12AML-SD ⑩*	SM12A03ML-12AFL-SD ⑩*
		UL20549, High Flex / Bending PUR	SM12A03ML-12AML-SN ⑩*	SM12A03ML-12AFL-SN ⑩*
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS03ML-SASML-SA ⑩*	SMSAS03ML-SASFL-SA ⑩*
		UL20549, PUR Jacket	SMSAS03ML-SASML-SB ⑩*	SMSAS03ML-SASFL-SB ⑩*
		UL2517, PVC Jacket (Black)	SMSAS03ML-SASML-SD ⑩*	SMSAS03ML-SASFL-SD ⑩*
		UL20549, High Flex / Bending PUR	SMSAS03ML-SASML-SN ⑩*	SMSAS03ML-SASFL-SN ⑩*

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP03ML-SAPMR-SA ⑩*	MSAP03ML-SAPFR-SA ⑩*
		UL20549, PUR Jacket	MSAP03ML-SAPMR-SB ⑩	MSAP03ML-SAPFR-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP03ML-SAPMR-SD ⑩	MSAP03ML-SAPFR-SD ⑩
		UL20549, High Flex / Bending PUR	MSAP03ML-SAPMR-SN ⑩*	MSAP03ML-SAPFR-SN ⑩*
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A03ML-12AMR-SA ⑩*	M12A03ML-12AFR-SA ⑩*
		UL20549, PUR Jacket	M12A03ML-12AMR-SB ⑩	M12A03ML-12AFR-SB ⑩
		UL2517, PVC Jacket (Black)	M12A03ML-12AMR-SD ⑩	M12A03ML-12AFR-SD ⑩
		UL20549, High Flex / Bending PUR	M12A03ML-12AMR-SN ⑩*	M12A03ML-12AFR-SN ⑩*
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS03ML-SASMR-SA ⑩*	MSAS03ML-SASFR-SA ⑩*
		UL20549, PUR Jacket	MSAS03ML-SASMR-SB ⑩*	MSAS03ML-SASFR-SB ⑩*
		UL2517, PVC Jacket (Black)	MSAS03ML-SASMR-SD ⑩*	MSAS03ML-SASFR-SD ⑩*
		UL20549, High Flex / Bending PUR	MSAS03ML-SASMR-SN ⑩*	MSAS03ML-SASFR-SN ⑩*

Number of Contacts	3	
Coding	A	
Rated Voltage (AC/DC)	250V	
Nominal current	4A	
Pin Assignment	FM	MPronto-12 (M/M)
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM FF MF	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	-	M12A03ML-12AML-PA 10 *
		UL20549, PUR Jacket	-	M12A03ML-12AML-PB 10 *
		UL2517, PVC Jacket (Black)	-	M12A03ML-12AML-PD 10 *
		UL20549, High Flex / Bending PUR	-	M12A03ML-SAPML-PN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	-	MSAS03ML-SASML-PA 10 *
		UL20549, PUR Jacket	-	MSAS03ML-SASML-PB 10 *
		UL2517, PVC Jacket (Black)	-	MSAS03ML-SASML-PD 10 *
		UL20549, High Flex / Bending PUR	-	MSAS03ML-SASML-PN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	-	SM12A03ML-12AML-PA 10 *
		UL20549, PUR Jacket	-	SM12A03ML-12AML-PB 10 *
		UL2517, PVC Jacket (Black)	-	SM12A03ML-12AML-PD 10 *
		UL20549, High Flex / Bending PUR	-	SM12A03ML-SAPML-PN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	-	SMSAS03ML-SASML-PA 10 *
		UL20549, PUR Jacket	-	SMSAS03ML-SASML-PB 10 *
		UL2517, PVC Jacket (Black)	-	SMSAS03ML-SASML-PD 10 *
		UL20549, High Flex / Bending PUR	-	SMSAS03ML-SASML-PN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM FF MF FM	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP03FL-SAPMR-SA 10 *	-
		UL20549, PUR Jacket	MSAP03FL-SAPMR-SB 10	-
		UL2517, PVC Jacket (Black)	MSAP03FL-SAPMR-SD 10	-
		UL20549, High Flex / Bending PUR	MSAP03FL-SAPMR-SN 10 *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A03FL-12AMR-SA 10 *	M12A03ML-12AMR-PA 10 *
		UL20549, PUR Jacket	M12A03FL-12AMR-SB 10	M12A03ML-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	M12A03FL-12AMR-SD 10	M12A03ML-12AMR-PD 10 *
		UL20549, High Flex / Bending PUR	M12A03FL-12AMR-SN 10 *	M12A03ML-SAPMR-PN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS03FL-SASMR-SA 10 *	MSAS03ML-SASMR-PA 10 *
		UL20549, PUR Jacket	MSAS03FL-SASMR-SB 10 *	MSAS03ML-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	MSAS03FL-SASMR-SD 10 *	MSAS03ML-SASMR-PD 10 *
		UL20549, High Flex / Bending PUR	MSAS03FL-SASMR-SN 10 *	MSAS03ML-SASMR-PN 10 *

* Upon Request

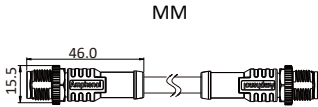
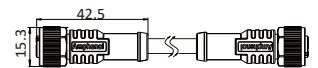
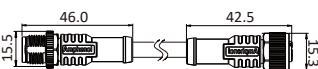
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3		4		
A		A		
250V		250V		
4A		4A		
FF	MM	MF	FM	MPronto-12 (M/M)
				
MSAP03FL-SAPFL-SA 	MSAP04ML-SAPML-SA 	MSAP04ML-SAPFL-SA 	-	-
MSAP03FL-SAPFL-SB 	MSAP04ML-SAPML-SB 	MSAP04ML-SAPFL-SB 	-	-
MSAP03FL-SAPFL-SD 	MSAP04ML-SAPML-SD 	MSAP04ML-SAPFL-SD 	-	-
MSAP03FL-SAPFL-SN 	MSAP04ML-SAPML-SN 	MSAP04ML-SAPFL-SN 	-	-
M12A03FL-12AFL-SA 	M12A04ML-12AML-SA 	M12A04ML-12AFL-SA 	-	M12A04ML-12AML-PA 
M12A03FL-12AFL-SB 	M12A04ML-12AML-SB 	M12A04ML-12AFL-SB 	-	M12A04ML-12AML-PB 
M12A03FL-12AFL-SD 	M12A04ML-12AML-SD 	M12A04ML-12AFL-SD 	-	M12A04ML-12AML-PD 
M12A03FL-12AFL-SN 	M12A04ML-12AML-SN 	M12A04ML-12AFL-SN 	-	M12A04ML-SAPML-PN 
MSAS03FL-SASFL-SA 	MSAS04ML-SASML-SA 	MSAS04ML-SASFL-SA 	-	MSAS04ML-SASML-PA 
MSAS03FL-SASFL-SB 	MSAS04ML-SASML-SB 	MSAS04ML-SASFL-SB 	-	MSAS04ML-SASML-PB 
MSAS03FL-SASFL-SD 	MSAS04ML-SASML-SD 	MSAS04ML-SASFL-SD 	-	MSAS04ML-SASML-PD 
MSAS03FL-SASFL-SN 	MSAS04ML-SASML-SN 	MSAS04ML-SASFL-SN 	-	MSAS04ML-SASML-PN 
SM12A03FL-12AFL-SA 	SM12A04ML-12AML-SA 	SM12A04ML-12AFL-SA 	-	SM12A04ML-12AML-PA 
SM12A03FL-12AFL-SB 	SM12A04ML-12AML-SB 	SM12A04ML-12AFL-SB 	-	SM12A04ML-12AML-PB 
SM12A03FL-12AFL-SD 	SM12A04ML-12AML-SD 	SM12A04ML-12AFL-SD 	-	SM12A04ML-12AML-PD 
SM12A03FL-12AFL-SN 	SM12A04ML-12AML-SN 	SM12A04ML-12AFL-SN 	-	SM12A04ML-SAPML-PN 
SMSAS03FL-SASFL-SA 	SMSAS04ML-SASML-SA 	SMSAS04ML-SASFL-SA 	-	SMSAS04ML-SASML-PA 
SMSAS03FL-SASFL-SB 	SMSAS04ML-SASML-SB 	SMSAS04ML-SASFL-SB 	-	SMSAS04ML-SASML-PB 
SMSAS03FL-SASFL-SD 	SMSAS04ML-SASML-SD 	SMSAS04ML-SASFL-SD 	-	SMSAS04ML-SASML-PD 
SMSAS03FL-SASFL-SN 	SMSAS04ML-SASML-SN 	SMSAS04ML-SASFL-SN 	-	SMSAS04ML-SASML-PN 
MSAP03FL-SAPFR-SA 	MSAP04ML-SAPMR-SA 	MSAP04ML-SAPFR-SA 	MSAP04FL-SAPMR-SA 	-
MSAP03FL-SAPFR-SB 	MSAP04ML-SAPMR-SB 	MSAP04ML-SAPFR-SB 	MSAP04FL-SAPMR-SB 	-
MSAP03FL-SAPFR-SD 	MSAP04ML-SAPMR-SD 	MSAP04ML-SAPFR-SD 	MSAP04FL-SAPMR-SD 	-
MSAP03FL-SAPFR-SN 	MSAP04ML-SAPMR-SN 	MSAP04ML-SAPFR-SN 	MSAP04FL-SAPMR-SN 	-
M12A03FL-12AFR-SA 	M12A04ML-12AMR-SA 	M12A04ML-12AFR-SA 	M12A04FL-12AMR-SA 	M12A04ML-12AMR-PA 
M12A03FL-12AFR-SB 	M12A04ML-12AMR-SB 	M12A04ML-12AFR-SB 	M12A04FL-12AMR-SB 	M12A04ML-12AMR-PB 
M12A03FL-12AFR-SD 	M12A04ML-12AMR-SD 	M12A04ML-12AFR-SD 	M12A04FL-12AMR-SD 	M12A04ML-12AMR-PD 
M12A03FL-12AFR-SN 	M12A04ML-12AMR-SN 	M12A04ML-12AFR-SN 	M12A04FL-12AMR-SN 	M12A04ML-SAPMR-PN 
MSAS03FL-SASFR-SA 	MSAS04ML-SASMR-SA 	MSAS04ML-SASFR-SA 	MSAS04FL-SASMR-SA 	MSAS04ML-SASMR-PA 
MSAS03FL-SASFR-SB 	MSAS04ML-SASMR-SB 	MSAS04ML-SASFR-SB 	MSAS04FL-SASMR-SB 	MSAS04ML-SASMR-PB 
MSAS03FL-SASFR-SD 	MSAS04ML-SASMR-SD 	MSAS04ML-SASFR-SD 	MSAS04FL-SASMR-SD 	MSAS04ML-SASMR-PD 
MSAS03FL-SASFR-SN	MSAS04ML-SASMR-SN	MSAS04ML-SASFR-SN	MSAS04FL-SASMR-SN	MSAS04ML-SASMR-PN

Number of Contacts	4	4
Coding	A	D
Rated Voltage (AC/DC)	250V	250V
Nominal current	4A	4A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

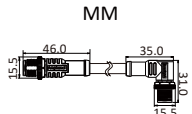
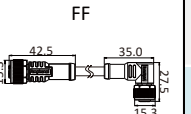
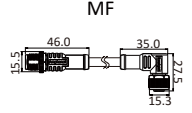
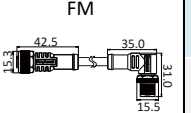
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF

  	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP04FL-SAPFL-SA ⑩ *	MSDP04ML-SDPML-SA ⑩ *
		UL20549, PUR Jacket	MSAP04FL-SAPFL-SB ⑩	MSDP04ML-SDPML-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP04FL-SAPFL-SD ⑩	MSDP04ML-SDPML-SD ⑩
		Cat. 5e, PUR Jacket	-	MSDP04ML-SDPML-SE ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSAP04FL-SAPFL-SN ⑩ *	MSDP04ML-SDPML-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	M12A04FL-12AFL-SA ⑩ *	M12D04ML-12DML-SA ⑩ *
		UL20549, PUR Jacket	M12A04FL-12AFL-SB ⑩	M12D04ML-12DML-SB ⑩
		UL2517, PVC Jacket (Black)	M12A04FL-12AFL-SD ⑩	M12D04ML-12DML-SD ⑩
		Cat. 5e, PUR Jacket	-	M12D04ML-12DML-SE ⑩ *
	Shielded	UL20549, High Flex / Bending PUR	M12A04FL-12AFL-SN ⑩ *	M12D04ML-12DML-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	MSAS04FL-SASFL-SA ⑩ *	MSDS04ML-SDSML-SA ⑩ *
		UL20549, PUR Jacket	MSAS04FL-SASFL-SB ⑩ *	MSDS04ML-SDSML-SB ⑩
		UL2517, PVC Jacket (Black)	MSAS04FL-SASFL-SD ⑩ *	MSDS04ML-SDSML-SD ⑩
		Cat. 5e, PUR Jacket	-	MSDS04ML-SDSML-SE ⑩
	Stainless	UL20549, High Flex / Bending PUR	MSAS04FL-SASFL-SN ⑩ *	MSDS04ML-SDSML-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	SM12A04FL-12AFL-SA ⑩ *	SM12D04ML-12DML-SA ⑩
		UL20549, PUR Jacket	SM12A04FL-12AFL-SB ⑩ *	SM12D04ML-12DML-SB ⑩
		UL2517, PVC Jacket (Black)	SM12A04FL-12AFL-SD ⑩ *	SM12D04ML-12DML-SD ⑩
	Stainless Shielded	Cat. 5e, PUR Jacket	-	SM12D04ML-12DML-SE ⑩ *
		UL20549, High Flex / Bending PUR	SM12A04FL-12AFL-SN ⑩ *	SM12D04ML-12DML-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	SMSAS04FL-SASFL-SA ⑩ *	SMSDS04ML-SDSML-SA ⑩ *
		UL20549, PUR Jacket	SMSAS04FL-SASFL-SB ⑩ *	SMSDS04ML-SDSML-SB ⑩ *
		UL2517, PVC Jacket (Black)	SMSAS04FL-SASFL-SD ⑩ *	SMSDS04ML-SDSML-SD ⑩ *
		Cat. 5e, PUR Jacket	-	SMSDS04ML-SDSML-SE ⑩ *
		UL20549, High Flex / Bending PUR	SMSAS04FL-SASFL-SN ⑩ *	SMSDS04ML-SDSML-SN ⑩ *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF

   	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP04FL-SAPFR-SA ⑩ *	MSDP04ML-SDPMR-SA ⑩ *
		UL20549, PUR Jacket	MSAP04FL-SAPFR-SB ⑩	MSDP04ML-SDPMR-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP04FL-SAPFR-SD ⑩	MSDP04ML-SDPMR-SD ⑩
		Cat. 5e, PUR Jacket	-	MSDP04ML-SDPMR-SE ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSAP04FL-SAPFR-SN ⑩ *	MSDP04ML-SDPMR-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	M12A04FL-12AFR-SA ⑩ *	M12D04ML-12DMR-SA ⑩ *
		UL20549, PUR Jacket	M12A04FL-12AFR-SB ⑩	M12D04ML-12DMR-SB ⑩
		UL2517, PVC Jacket (Black)	M12A04FL-12AFR-SD ⑩	M12D04ML-12DMR-SD ⑩
		Cat. 5e, PUR Jacket	-	M12D04ML-12DMR-SE ⑩ *
	Shielded	UL20549, High Flex / Bending PUR	M12A04FL-12AFR-SN ⑩ *	M12D04ML-12DMR-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	MSAS04FL-SASFR-SA ⑩ *	MSDS04ML-SDSMR-SA ⑩ *
		UL20549, PUR Jacket	MSAS04FL-SASFR-SB ⑩ *	MSDS04ML-SDSMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	MSAS04FL-SASFR-SD ⑩ *	MSDS04ML-SDSMR-SD ⑩ *
		Cat. 5e, PUR Jacket	-	MSDS04ML-SDSMR-SE ⑩ *
	Stainless	UL20549, High Flex / Bending PUR	MSAS04FL-SASFR-SN ⑩ *	MSDS04ML-SDSMR-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	MSAS04FL-SASFR-SA ⑩ *	MSDS04ML-SDSMR-SA ⑩ *
		UL20549, PUR Jacket	MSAS04FL-SASFR-SB ⑩ *	MSDS04ML-SDSMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	MSAS04FL-SASFR-SD ⑩ *	MSDS04ML-SDSMR-SD ⑩ *
	Stainless Shielded	Cat. 5e, PUR Jacket	-	MSDS04ML-SDSMR-SE ⑩ *
		UL20549, High Flex / Bending PUR	MSAS04FL-SASFR-SN ⑩ *	MSDS04ML-SDSMR-SN ⑩ *
		UL2517, PVC Jacket (Yellow)	MSAS04FL-SASFR-SA ⑩ *	MSDS04ML-SDSMR-SA ⑩ *
		UL20549, PUR Jacket	MSAS04FL-SASFR-SB ⑩ *	MSDS04ML-SDSMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	MSAS04FL-SASFR-SD ⑩ *	MSDS04ML-SDSMR-SD ⑩ *
		Cat. 5e, PUR Jacket	-	MSDS04ML-SDSMR-SE ⑩ *
		UL20549, High Flex / Bending PUR	MSAS04FL-SASFR-SN ⑩ *	MSDS04ML-SDSMR-SN ⑩ *

* Upon Request

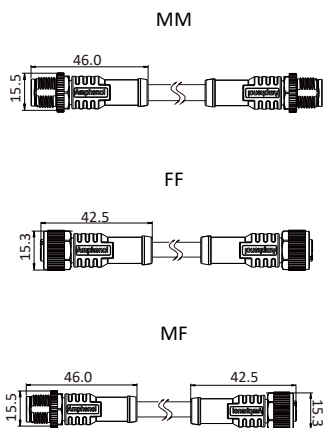
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4				5
D				A
250V				60V
4A				4A
MF	FM	MPronto-12 (M/M)	FF	MM
				
MSDP04ML-SDPFL-SA ¹⁰ *	-	-	MSDP04FL-SDPFL-SA ¹⁰ *	MSAP05ML-SAPML-SA ¹⁰ *
MSDP04ML-SDPFL-SB ¹⁰	-	-	MSDP04FL-SDPFL-SB ¹⁰	MSAP05ML-SAPML-SB ¹⁰
MSDP04ML-SDPFL-SD ¹⁰	-	-	MSDP04FL-SDPFL-SD ¹⁰	MSAP05ML-SAPML-SD ¹⁰
MSDP04ML-SDPFL-SE ¹⁰ *	-	-	MSDP04FL-SDPFL-SE ¹⁰ *	-
MSDP04ML-SDPFL-SN ¹⁰ *	-	-	MSDP04FL-SDPFL-SN ¹⁰ *	MSAP05ML-SAPML-SN ¹⁰ *
M12D04ML-12DFL-SA ¹⁰ *	-	M12D04ML-12DML-PA ¹⁰ *	M12D04FL-12DFL-SA ¹⁰ *	M12A05ML-12AML-SA ¹⁰ *
M12D04ML-12DFL-SB ¹⁰	-	M12D04ML-12DML-PB ¹⁰	M12D04FL-12DFL-SB ¹⁰	M12A05ML-12AML-SB ¹⁰
M12D04ML-12DFL-SD ¹⁰	-	M12D04ML-12DML-PD ¹⁰	M12D04FL-12DFL-SD ¹⁰	M12A05ML-12AML-SD ¹⁰
M12D04ML-12DFL-SE ¹⁰ *	-	M12D04ML-12DML-PE ¹⁰	M12D04FL-12DFL-SE ¹⁰ *	-
M12D04ML-12DFL-SN ¹⁰ *	-	M12D04ML-SDPML-PN ¹⁰ *	M12D04FL-12DFL-SN ¹⁰ *	M12A05ML-12AML-SN ¹⁰ *
MSDS04ML-SDSFL-SA ¹⁰ *	-	MSDS04ML-SDSML-PA ¹⁰ *	MSDS04FL-SDSFL-SA ¹⁰ *	MSAS05ML-SASML-SA ¹⁰ *
MSDS04ML-SDSFL-SB ¹⁰	-	MSDS04ML-SDSML-PB ¹⁰ *	MSDS04FL-SDSFL-SB ¹⁰	MSAS05ML-SASML-SB ¹⁰
MSDS04ML-SDSFL-SD ¹⁰	-	MSDS04ML-SDSML-PD ¹⁰ *	MSDS04FL-SDSFL-SD ¹⁰	MSAS05ML-SASML-SD ¹⁰
MSDS04ML-SDSFL-SE ¹⁰ *	-	MSDS04ML-SDSML-PE ¹⁰ *	MSDS04FL-SDSFL-SE ¹⁰ *	-
MSDS04ML-SDSFL-SN ¹⁰ *	-	MSDS04ML-SDSML-PN ¹⁰ *	MSDS04FL-SDSFL-SN ¹⁰ *	MSAS05ML-SASML-SN ¹⁰ *
SM12D04ML-12DFL-SA ¹⁰	-	SM12D04ML-12DML-PA ¹⁰ *	SM12D04FL-12DFL-SA ¹⁰ *	SM12A05ML-12AML-SA ¹⁰ *
SM12D04ML-12DFL-SB ¹⁰	-	SM12D04ML-12DML-PB ¹⁰ *	SM12D04FL-12DFL-SB ¹⁰ *	SM12A05ML-12AML-SB ¹⁰ *
SM12D04ML-12DFL-SD ¹⁰	-	SM12D04ML-12DML-PD ¹⁰ *	SM12D04FL-12DFL-SD ¹⁰ *	SM12A05ML-12AML-SD ¹⁰ *
SM12D04ML-12DFL-SE ¹⁰ *	-	SM12D04ML-12DML-PE ¹⁰ *	SM12D04FL-12DFL-SE ¹⁰ *	-
SM12D04ML-12DFL-SN ¹⁰ *	-	SM12D04ML-SDPML-PN ¹⁰ *	SM12D04FL-12DFL-SN ¹⁰ *	SM12A05ML-12AML-SN ¹⁰ *
SMSDS04ML-SDSFL-SA ¹⁰ *	-	SMSDS04ML-SDSML-PA ¹⁰ *	SMSDS04FL-SDSFL-SA ¹⁰ *	SMSAS05ML-SASML-SA ¹⁰ *
SMSDS04ML-SDSFL-SB ¹⁰ *	-	SMSDS04ML-SDSML-PB ¹⁰ *	SMSDS04FL-SDSFL-SB ¹⁰ *	SMSAS05ML-SASML-SB ¹⁰ *
SMSDS04ML-SDSFL-SD ¹⁰ *	-	SMSDS04ML-SDSML-PD ¹⁰ *	SMSDS04FL-SDSFL-SD ¹⁰ *	SMSAS05ML-SASML-SD ¹⁰ *
SMSDS04ML-SDSFL-SE ¹⁰ *	-	SMSDS04ML-SDSML-PE ¹⁰ *	SMSDS04FL-SDSFL-SE ¹⁰ *	-
SMSDS04ML-SDSFL-SN ¹⁰ *	-	SMSDS04ML-SDSML-PN ¹⁰ *	SMSDS04FL-SDSFL-SN ¹⁰ *	SMSAS05ML-SASML-SN ¹⁰ *
MSDP04ML-SDPFR-SA ¹⁰ *	MSDP04FL-SDPMR-SA ¹⁰ *	-	MSDP04FL-SDPFR-SA ¹⁰ *	MSAP05ML-SAPMR-SA ¹⁰ *
MSDP04ML-SDPFR-SB ¹⁰	MSDP04FL-SDPMR-SB ¹⁰	-	MSDP04FL-SDPFR-SB ¹⁰	MSAP05ML-SAPMR-SB ¹⁰
MSDP04ML-SDPFR-SD ¹⁰	MSDP04FL-SDPMR-SD ¹⁰	-	MSDP04FL-SDPFR-SD ¹⁰	MSAP05ML-SAPMR-SD ¹⁰
MSDP04ML-SDPFR-SE ¹⁰ *	MSDP04FL-SDPMR-SE ¹⁰ *	-	MSDP04FL-SDPFR-SE ¹⁰ *	-
MSDP04ML-SDPFR-SN ¹⁰ *	MSDP04FL-SDPMR-SN ¹⁰ *	-	MSDP04FL-SDPFR-SN ¹⁰ *	MSAP05ML-SAPMR-SN ¹⁰ *
M12D04ML-12DFR-SA ¹⁰ *	M12D04FL-12DMR-SA ¹⁰ *	M12D04ML-12DMR-PA ¹⁰ *	M12D04FL-12DFR-SA ¹⁰ *	M12A05ML-12AMR-SA ¹⁰ *
M12D04ML-12DFR-SB ¹⁰	M12D04FL-12DMR-SB ¹⁰	M12D04ML-12DMR-PB ¹⁰ *	M12D04FL-12DFR-SB ¹⁰	M12A05ML-12AMR-SB ¹⁰
M12D04ML-12DFR-SD ¹⁰	M12D04FL-12DMR-SD ¹⁰	M12D04ML-12DMR-PD ¹⁰ *	M12D04FL-12DFR-SD ¹⁰	M12A05ML-12AMR-SD ¹⁰
M12D04ML-12DFR-SE ¹⁰ *	M12D04FL-12DMR-SE ¹⁰ *	M12D04ML-12DMR-PE ¹⁰ *	M12D04FL-12DFR-SE ¹⁰ *	-
M12D04ML-12DFR-SN ¹⁰ *	M12D04FL-12DMR-SN ¹⁰ *	M12D04ML-SDPMR-PN ¹⁰ *	M12D04FL-12DFR-SN ¹⁰ *	M12A05ML-12AMR-SN ¹⁰ *
MSDS04ML-SDSFR-SA ¹⁰ *	MSDS04FL-SDSMR-SA ¹⁰ *	MSDS04ML-SDSMR-PA ¹⁰ *	MSDS04FL-SDSFR-SA ¹⁰ *	MSAS05ML-SASMR-SA ¹⁰ *
MSDS04ML-SDSFR-SB ¹⁰ *	MSDS04FL-SDSMR-SB ¹⁰ *	MSDS04ML-SDSMR-PB ¹⁰ *	MSDS04FL-SDSFR-SB ¹⁰ *	MSAS05ML-SASMR-SB ¹⁰ *
MSDS04ML-SDSFR-SD ¹⁰ *	MSDS04FL-SDSMR-SD ¹⁰ *	MSDS04ML-SDSMR-PD ¹⁰ *	MSDS04FL-SDSFR-SD ¹⁰ *	MSAS05ML-SASMR-SD ¹⁰ *
MSDS04ML-SDSFR-SE ¹⁰ *	MSDS04FL-SDSMR-SE ¹⁰ *	MSDS04ML-SDSMR-PE ¹⁰ *	MSDS04FL-SDSFR-SE ¹⁰ *	-
MSDS04ML-SDSFR-SN ¹⁰ *	MSDS04FL-SDSMR-SN ¹⁰ *	MSDS04ML-SDSMR-PN ¹⁰ *	MSDS04FL-SDSFR-SN ¹⁰ *	MSAS05ML-SASMR-SN ¹⁰ *

Number of Contacts	5	
Coding	A	
Rated Voltage (AC/DC)	60V	
Nominal current	4A	
Pin Assignment	MF	FM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

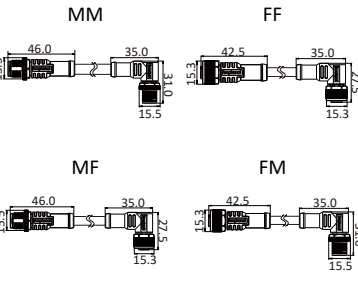
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP05ML-SAPFL-SA ¹⁰ *	-
		UL20549, PUR Jacket	MSAP05ML-SAPFL-SB ¹⁰	-
		UL2517, PVC Jacket (Black)	MSAP05ML-SAPFL-SD ¹⁰	-
		UL20549, High Flex / Bending PUR	MSAP05ML-SAPFL-SN ¹⁰ *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A05ML-12AFL-SA ¹⁰ *	-
		UL20549, PUR Jacket	M12A05ML-12AFL-SB ¹⁰	-
		UL2517, PVC Jacket (Black)	M12A05ML-12AFL-SD ¹⁰	-
		UL20549, High Flex / Bending PUR	M12A05ML-12AFL-SN ¹⁰ *	-
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS05ML-SASFL-SA ¹⁰ *	-
		UL20549, PUR Jacket	MSAS05ML-SASFL-SB ¹⁰	-
		UL2517, PVC Jacket (Black)	MSAS05ML-SASFL-SD ¹⁰	-
		UL20549, High Flex / Bending PUR	MSAS05ML-SASFL-SN ¹⁰ *	-
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A05ML-12AFL-SA ¹⁰ *	-
		UL20549, PUR Jacket	SM12A05ML-12AFL-SB ¹⁰ *	-
		UL2517, PVC Jacket (Black)	SM12A05ML-12AFL-SD ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SM12A05ML-12AFL-SN ¹⁰ *	-
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS05ML-SASFL-SA ¹⁰ *	-
		UL20549, PUR Jacket	SMSAS05ML-SASFL-SB ¹⁰ *	-
		UL2517, PVC Jacket (Black)	SMSAS05ML-SASFL-SD ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SMSAS05ML-SASFL-SN ¹⁰ *	-

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP05ML-SAPFR-SA ¹⁰ *	MSAP05FL-SAPMR-SA ¹⁰ *
		UL20549, PUR Jacket	MSAP05ML-SAPFR-SB ¹⁰	MSAP05FL-SAPMR-SB ¹⁰
		UL2517, PVC Jacket (Black)	MSAP05ML-SAPFR-SD ¹⁰	MSAP05FL-SAPMR-SD ¹⁰
		UL20549, High Flex / Bending PUR	MSAP05ML-SAPFR-SN ¹⁰ *	MSAP05FL-SAPMR-SN ¹⁰ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A05ML-12AFR-SA ¹⁰ *	M12A05FL-12AMR-SA ¹⁰ *
		UL20549, PUR Jacket	M12A05ML-12AFR-SB ¹⁰	M12A05FL-12AMR-SB ¹⁰
		UL2517, PVC Jacket (Black)	M12A05ML-12AFR-SD ¹⁰	M12A05FL-12AMR-SD ¹⁰
		UL20549, High Flex / Bending PUR	M12A05ML-12AFR-SN ¹⁰ *	M12A05FL-12AMR-SN ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS05ML-SASFR-SA ¹⁰ *	MSAS05FL-SASMR-SA ¹⁰ *
		UL20549, PUR Jacket	MSAS05ML-SASFR-SB ¹⁰ *	MSAS05FL-SASMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAS05ML-SASFR-SD ¹⁰ *	MSAS05FL-SASMR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAS05ML-SASFR-SN ¹⁰ *	MSAS05FL-SASMR-SN ¹⁰ *

* Upon Request

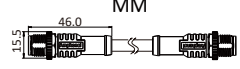
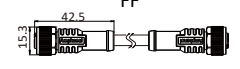
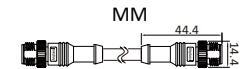
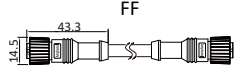
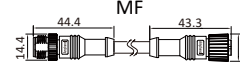
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5		5		
A		B		
60V		60V		
4A		4A		
MPronto-12 (M/M)	FF	MM	MF	FM
-	MSAP05FL-SAPFL-SA	MSBP05ML-SBPML-SA	MSBP05ML-SBPFL-SA	-
-	MSAP05FL-SAPFL-SB	MSBP05ML-SBPML-SB	MSBP05ML-SBPFL-SB	-
-	MSAP05FL-SAPFL-SD	MSBP05ML-SBPML-SD	MSBP05ML-SBPFL-SD	-
-	MSAP05FL-SAPFL-SN	MSBP05ML-SBPML-SN	MSBP05ML-SBPFL-SN	-
M12A05ML-12AML-PA	M12A05FL-12AFL-SA	M12B05ML-12BML-SA	M12B05ML-12BFL-SA	-
M12A05ML-12AML-PB	M12A05FL-12AFL-SB	M12B05ML-12BML-SB	M12B05ML-12BFL-SB	-
M12A05ML-12AML-PD	M12A05FL-12AFL-SD	M12B05ML-12BML-SD	M12B05ML-12BFL-SD	-
M12A05ML-SAPML-PN	M12A05FL-12AFL-SN	M12B05ML-12BML-SN	M12B05ML-12BFL-SN	-
MSAS05ML-SASML-PA	MSAS05FL-SASFL-SA	MSBS05ML-SBSML-SA	MSBS05ML-SBSFL-SA	-
MSAS05ML-SASML-PB	MSAS05FL-SASFL-SB	MSBS05ML-SBSML-SB	MSBS05ML-SBSFL-SB	-
MSAS05ML-SASML-PD	MSAS05FL-SASFL-SD	MSBS05ML-SBSML-SD	MSBS05ML-SBSFL-SD	-
MSAS05ML-SASML-PN	MSAS05FL-SASFL-SN	MSBS05ML-SBSML-SN	MSBS05ML-SBSFL-SN	-
SM12A05ML-12AML-PA	SM12A05FL-12AFL-SA	SM12B05ML-12BML-SA	SM12B05ML-12BFL-SA	-
SM12A05ML-12AML-PB	SM12A05FL-12AFL-SB	SM12B05ML-12BML-SB	SM12B05ML-12BFL-SB	-
SM12A05ML-12AML-PD	SM12A05FL-12AFL-SD	SM12B05ML-12BML-SD	SM12B05ML-12BFL-SD	-
SM12A05ML-SAPML-PN	SM12A05FL-12AFL-SN	SM12B05ML-12BML-SN	SM12B05ML-12BFL-SN	-
SMSAS05ML-SASML-PA	SMSAS05FL-SASFL-SA	SMSBS05ML-SBSML-SA	SMSBS05ML-SBSFL-SA	-
SMSAS05ML-SASML-PB	SMSAS05FL-SASFL-SB	SMSBS05ML-SBSML-SB	SMSBS05ML-SBSFL-SB	-
SMSAS05ML-SASML-PD	SMSAS05FL-SASFL-SD	SMSBS05ML-SBSML-SD	SMSBS05ML-SBSFL-SD	-
SMSAS05ML-SASML-PN	SMSAS05FL-SASFL-SN	SMSBS05ML-SBSML-SN	SMSBS05ML-SBSFL-SN	-
-	MSAP05FL-SAPFR-SA	MSBP05ML-SBPMR-SA	MSBP05ML-SBPFR-SA	MSBP05FL-SBPMR-SA
-	MSAP05FL-SAPFR-SB	MSBP05ML-SBPMR-SB	MSBP05ML-SBPFR-SB	MSBP05FL-SBPMR-SB
-	MSAP05FL-SAPFR-SD	MSBP05ML-SBPMR-SD	MSBP05ML-SBPFR-SD	MSBP05FL-SBPMR-SD
-	MSAP05FL-SAPFR-SN	MSBP05ML-SBPMR-SN	MSBP05ML-SBPFR-SN	MSBP05FL-SBPMR-SN
M12A05ML-12AMR-PA	M12A05FL-12AFR-SA	M12B05ML-12BMR-SA	M12B05ML-12BFR-SA	M12B05FL-12BMR-SA
M12A05ML-12AMR-PB	M12A05FL-12AFR-SB	M12B05ML-12BMR-SB	M12B05ML-12BFR-SB	M12B05FL-12BMR-SB
M12A05ML-12AMR-PD	M12A05FL-12AFR-SD	M12B05ML-12BMR-SD	M12B05ML-12BFR-SD	M12B05FL-12BMR-SD
M12A05ML-SAPMR-PN	M12A05FL-12AFR-SN	M12B05ML-12BMR-SN	M12B05ML-12BFR-SN	M12B05FL-12BMR-SN
MSAS05ML-SASMR-PA	MSAS05FL-SASFR-SA	MSBS05ML-SBSMR-SA	MSBS05ML-SBSFR-SA	MSBS05FL-SBSMR-SA
MSAS05ML-SASMR-PB	MSAS05FL-SASFR-SB	MSBS05ML-SBSMR-SB	MSBS05ML-SBSFR-SB	MSBS05FL-SBSMR-SB
MSAS05ML-SASMR-PD	MSAS05FL-SASFR-SD	MSBS05ML-SBSMR-SD	MSBS05ML-SBSFR-SD	MSBS05FL-SBSMR-SD
MSAS05ML-SASMR-PN	MSAS05FL-SASFR-SN	MSBS05ML-SBSMR-SN	MSBS05ML-SBSFR-SN	MSBS05FL-SBSMR-SN

Number of Contacts	5	
Coding	B	
Rated Voltage (AC/DC)	60V	
Nominal current	4A	
Pin Assignment	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

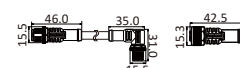
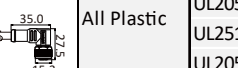
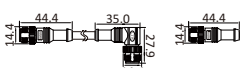
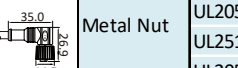
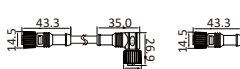
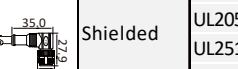
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(A)** M+Hybrid, **(C)** F+Hybrid

B code MM  FF  I code MM  FF  MF 	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSBP05FL-SBPFL-SA 10 *
	All Plastic	UL20549, PUR Jacket	-	MSBP05FL-SBPFL-SB 10
	All Plastic	UL2517, PVC Jacket (Black)	-	MSBP05FL-SBPFL-SD 10
	All Plastic	UL20549, High Flex / Bending PUR	-	MSBP05FL-SBPFL-SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12B05ML-12BML-PA 10 *	M12B05FL-12BFL-SA 10 *
	Metal Nut	UL20549, PUR Jacket	M12B05ML-12BML-PB 10	M12B05FL-12BFL-SB 10
	Metal Nut	UL2517, PVC Jacket (Black)	M12B05ML-12BML-PD 10	M12B05FL-12BFL-SD 10
	Metal Nut	UL20549, High Flex / Bending PUR	M12B05ML-SBPML-PN 10 *	M12B05FL-12BFL-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSBS05ML-SBSML-PA 10 *	MSBS05FL-SBSFL-SA 10 *
	Shielded	UL20549, PUR Jacket	MSBS05ML-SBSML-PB 10 *	MSBS05FL-SBSFL-SB 10
	Shielded	UL2517, PVC Jacket (Black)	MSBS05ML-SBSML-PD 10 *	MSBS05FL-SBSFL-SD 10
	Shielded	UL20549, High Flex / Bending PUR	MSBS05ML-SBSML-PN 10 *	MSBS05FL-SBSFL-SN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12B05ML-12BML-PA 10 *	SM12B05FL-12BFL-SA 10 *
	Stainless	UL20549, PUR Jacket	SM12B05ML-12BML-PB 10 *	SM12B05FL-12BFL-SB 10
	Stainless	UL2517, PVC Jacket (Black)	SM12B05ML-12BML-PD 10 *	SM12B05FL-12BFL-SD 10
	Stainless	UL20549, High Flex / Bending PUR	SM12B05ML-SBPML-PN 10 *	SM12B05FL-12BFL-SN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSBS05ML-SBSML-PA 10 *	SMSBS05FL-SBSFL-SA 10 *
	Stainless Shielded	UL20549, PUR Jacket	SMSBS05ML-SBSML-PB 10 *	SMSBS05FL-SBSFL-SB 10
	Stainless Shielded	UL2517, PVC Jacket (Black)	SMSBS05ML-SBSML-PD 10 *	SMSBS05FL-SBSFL-SD 10
	Stainless Shielded	UL20549, High Flex / Bending PUR	SMSBS05ML-SBSML-PN 10 *	SMSBS05FL-SBSFL-SN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(A)** M+Hybrid, **(C)** F+Hybrid

B code MM  FF  I code MM  MF  FF  FM 	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSBP05FL-SBPFR-SA 10 *
	All Plastic	UL20549, PUR Jacket	-	MSBP05FL-SBPFR-SB 10
	All Plastic	UL2517, PVC Jacket (Black)	-	MSBP05FL-SBPFR-SD 10
	All Plastic	UL20549, High Flex / Bending PUR	-	MSBP05FL-SBPFR-SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12B05ML-12BMR-PA 10 *	M12B05FL-12BFR-SA 10 *
	Metal Nut	UL20549, PUR Jacket	M12B05ML-12BMR-PB 10 *	M12B05FL-12BFR-SB 10
	Metal Nut	UL2517, PVC Jacket (Black)	M12B05ML-12BMR-PD 10 *	M12B05FL-12BFR-SD 10
	Metal Nut	UL20549, High Flex / Bending PUR	M12B05ML-SBPMR-PN 10 *	M12B05FL-12BFR-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSBS05ML-SBSMR-PA 10 *	MSBS05FL-SBSFR-SA 10 *
	Shielded	UL20549, PUR Jacket	MSBS05ML-SBSMR-PB 10 *	MSBS05FL-SBSFR-SB 10
	Shielded	UL2517, PVC Jacket (Black)	MSBS05ML-SBSMR-PD 10 *	MSBS05FL-SBSFR-SD 10
	Shielded	UL20549, High Flex / Bending PUR	MSBS05ML-SBSMR-PN 10 *	MSBS05FL-SBSFR-SN 10 *

* Upon Request

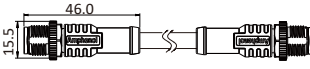
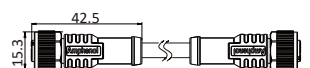
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5				
I				
60V				
4A				
Male/Hybrid	MF	FM	MPronto-12 (Male/Hybrid)	Female/Hybrid
				
MSIP05AL-SIPAL-SA 10 *	MSIP05AL-SIPCL-SA 10 *	-	-	MSIP05CL-SIPCL-SA 10 *
MSIP05AL-SIPAL-SB 10 *	MSIP05AL-SIPCL-SB 10 *	-	-	MSIP05CL-SIPCL-SB 10 *
MSIP05AL-SIPAL-SD 10 *	MSIP05AL-SIPCL-SD 10 *	-	-	MSIP05CL-SIPCL-SD 10 *
MSIP05AL-SIPAL-SN 10 *	MSIP05AL-SIPCL-SN 10 *	-	-	MSIP05CL-SIPCL-SN 10 *
M12I05AL-12IAL-SA 10 *	M12I05AL-12ICL-SA 10 *	-	M12I05AL-12IAL-PA 10 *	M12I05CL-12ICL-SA 10 *
M12I05AL-12IAL-SB 10 *	M12I05AL-12ICL-SB 10 *	-	M12I05AL-12IAL-PB 10 *	M12I05CL-12ICL-SB 10 *
M12I05AL-12IAL-SD 10 *	M12I05AL-12ICL-SD 10 *	-	M12I05AL-12IAL-PD 10 *	M12I05CL-12ICL-SD 10 *
M12I05AL-12IAL-SN 10 *	M12I05AL-12ICL-SN 10 *	-	M12I05AL-SIPAL-PN 10 *	M12I05CL-12ICL-SN 10 *
MSIS05AL-SISAL-SA 10 *	MSIS05AL-SISCL-SA 10 *	-	MSIS05AL-SISAL-PA 10 *	MSIS05CL-SISCL-SA 10 *
MSIS05AL-SISAL-SB 10 *	MSIS05AL-SISCL-SB 10 *	-	MSIS05AL-SISAL-PB 10 *	MSIS05CL-SISCL-SB 10 *
MSIS05AL-SISAL-SD 10 *	MSIS05AL-SISCL-SD 10 *	-	MSIS05AL-SISAL-PD 10 *	MSIS05CL-SISCL-SD 10 *
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SM12I05AL-12IAL-SA 10 *	SM12I05AL-12ICL-SA 10 *	-	SM12I05AL-12IAL-PA 10 *	SM12I05CL-12ICL-SA 10 *
SM12I05AL-12IAL-SB 10 *	SM12I05AL-12ICL-SB 10 *	-	SM12I05AL-12IAL-PB 10 *	SM12I05CL-12ICL-SB 10 *
SM12I05AL-12IAL-SD 10 *	SM12I05AL-12ICL-SD 10 *	-	SM12I05AL-12IAL-PD 10 *	SM12I05CL-12ICL-SD 10 *
SM12I05AL-12IAL-SN 10 *	SM12I05AL-12ICL-SN 10 *	-	SM12I05AL-SIPAL-PN 10 *	SM12I05CL-12ICL-SN 10 *
SMSIS05AL-SISAL-SA 10 *	SMSIS05AL-SISCL-SA 10 *	-	SMSIS05AL-SISAL-PA 10 *	SMSIS05CL-SISCL-SA 10 *
SMSIS05AL-SISAL-SB 10 *	SMSIS05AL-SISCL-SB 10 *	-	SMSIS05AL-SISAL-PB 10 *	SMSIS05CL-SISCL-SB 10 *
SMSIS05AL-SISAL-SD 10 *	SMSIS05AL-SISCL-SD 10 *	-	SMSIS05AL-SISAL-PD 10 *	SMSIS05CL-SISCL-SD 10 *
SMSIS05AL-SISAL-SN 10 *	SMSIS05AL-SISCL-SN 10 *	-	SMSIS05AL-SISAL-PN 10 *	SMSIS05CL-SISCL-SN 10 *
MSIP05AL-SIPAR-SA 10 *	MSIP05AL-SIPCR-SA 10 *	MSIP05CL-SIPAR-SA 10 *	-	MSIP05CL-SIPCR-SA 10 *
MSIP05AL-SIPAR-SB 10 *	MSIP05AL-SIPCR-SB 10 *	MSIP05CL-SIPAR-SB 10 *	-	MSIP05CL-SIPCR-SB 10 *
MSIP05AL-SIPAR-SD 10 *	MSIP05AL-SIPCR-SD 10 *	MSIP05CL-SIPAR-SD 10 *	-	MSIP05CL-SIPCR-SD 10 *
MSIP05AL-SIPAR-SN 10 *	MSIP05AL-SIPCR-SN 10 *	MSIP05CL-SIPAR-SN 10 *	-	MSIP05CL-SIPCR-SN 10 *
M12I05AL-12IAR-SA 10 *	M12I05AL-12ICR-SA 10 *	M12I05CL-12IAR-SA 10 *	M12I05AL-12IAR-PA 10 *	M12I05CL-12ICR-SA 10 *
M12I05AL-12IAR-SB 10 *	M12I05AL-12ICR-SB 10 *	M12I05CL-12IAR-SB 10 *	M12I05AL-12IAR-PB 10 *	M12I05CL-12ICR-SB 10 *
M12I05AL-12IAR-SD 10 *	M12I05AL-12ICR-SD 10 *	M12I05CL-12IAR-SD 10 *	M12I05AL-12IAR-PD 10 *	M12I05CL-12ICR-SD 10 *
M12I05AL-12IAR-SN 10 *	M12I05AL-12ICR-SN 10 *	M12I05CL-12IAR-SN 10 *	M12I05AL-SIPAR-PN 10 *	M12I05CL-12ICR-SN 10 *
MSIS05AL-SISAR-SA 10 *	MSIS05AL-SISCR-SA 10 *	MSIS05CL-SISAR-SA 10 *	MSIS05AL-SISAR-PA 10 *	MSIS05CL-SISCR-SA 10 *
MSIS05AL-SISAR-SB 10 *	MSIS05AL-SISCR-SB 10 *	MSIS05CL-SISAR-SB 10 *	MSIS05AL-SISAR-PB 10 *	MSIS05CL-SISCR-SB 10 *
MSIS05AL-SISAR-SD 10 *	MSIS05AL-SISCR-SD 10 *	MSIS05CL-SISAR-SD 10 *	MSIS05AL-SISAR-PD 10 *	MSIS05CL-SISCR-SD 10 *
MSIS05AL-SISAR-SN 10 *	MSIS05AL-SISCR-SN 10 *	MSIS05CL-SISAR-SN 10 *	MSIS05AL-SISAR-PN 10 *	MSIS05CL-SISCR-SN 10 *

Number of Contacts	6	
Coding	A	
Rated Voltage (AC/DC)	30V	
Nominal current	2A	
Pin Assignment	MM	MF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

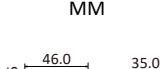
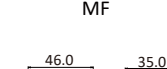
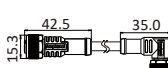
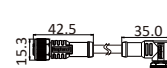
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

  	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP06ML-SAPML-SA ⑩*	MSAP06ML-SAPFL-SA ⑩*
		UL20549, PUR Jacket	MSAP06ML-SAPML-SB ⑩	MSAP06ML-SAPFL-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP06ML-SAPML-SD ⑩	MSAP06ML-SAPFL-SD ⑩
		Cat. 5e, PUR Jacket	-	-
	Metal Nut	UL20549, High Flex / Bending PUR	MSAP06ML-SAPML-SN ⑩*	MSAP06ML-SAPFL-SN ⑩*
		UL2517, PVC Jacket (Yellow)	M12A06ML-12AML-SA ⑩*	M12A06ML-12AFL-SA ⑩*
		UL20549, PUR Jacket	M12A06ML-12AML-SB ⑩	M12A06ML-12AFL-SB ⑩
		UL2517, PVC Jacket (Black)	M12A06ML-12AML-SD ⑩	M12A06ML-12AFL-SD ⑩
		Cat. 5e, PUR Jacket	-	-
	Shielded	UL20549, High Flex / Bending PUR	M12A06ML-12AML-SN ⑩*	M12A06ML-12AFL-SN ⑩*
		UL2517, PVC Jacket (Yellow)	MSAS06ML-SASML-SA ⑩*	MSAS06ML-SASFL-SA ⑩*
		UL20549, PUR Jacket	MSAS06ML-SASML-SB ⑩*	MSAS06ML-SASFL-SB ⑩*
		UL2517, PVC Jacket (Black)	MSAS06ML-SASML-SD ⑩*	MSAS06ML-SASFL-SD ⑩*
		Cat. 5e, PUR Jacket	-	-
	Stainless	UL20549, High Flex / Bending PUR	MSAS06ML-SASML-SN ⑩*	MSAS06ML-SASFL-SN ⑩*
		UL2517, PVC Jacket (Yellow)	SM12A06ML-12AML-SA ⑩*	SM12A06ML-12AFL-SA ⑩*
		UL20549, PUR Jacket	SM12A06ML-12AML-SB ⑩*	SM12A06ML-12AFL-SB ⑩*
		UL2517, PVC Jacket (Black)	SM12A06ML-12AML-SD ⑩*	SM12A06ML-12AFL-SD ⑩*
	Stainless Shielded	Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A06ML-12AML-SN ⑩*	SM12A06ML-12AFL-SN ⑩*
		UL2517, PVC Jacket (Yellow)	SMSAS06ML-SASML-SA ⑩*	SMSAS06ML-SASFL-SA ⑩*
		UL20549, PUR Jacket	SMSAS06ML-SASML-SB ⑩*	SMSAS06ML-SASFL-SB ⑩*
		UL2517, PVC Jacket (Black)	SMSAS06ML-SASML-SD ⑩*	SMSAS06ML-SASFL-SD ⑩*
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSAS06ML-SASML-SN ⑩*	SMSAS06ML-SASFL-SN ⑩*

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

   	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP06ML-SAPMR-SA ⑩*	MSAP06ML-SAPFR-SA ⑩*
		UL20549, PUR Jacket	MSAP06ML-SAPMR-SB ⑩	MSAP06ML-SAPFR-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP06ML-SAPMR-SD ⑩	MSAP06ML-SAPFR-SD ⑩
		Cat. 5e, PUR Jacket	-	-
	Metal Nut	UL20549, High Flex / Bending PUR	MSAP06ML-SAPMR-SN ⑩*	MSAP06ML-SAPFR-SN ⑩*
		UL2517, PVC Jacket (Yellow)	M12A06ML-12AMR-SA ⑩*	M12A06ML-12AFR-SA ⑩*
		UL20549, PUR Jacket	M12A06ML-12AMR-SB ⑩	M12A06ML-12AFR-SB ⑩
		UL2517, PVC Jacket (Black)	M12A06ML-12AMR-SD ⑩	M12A06ML-12AFR-SD ⑩
		Cat. 5e, PUR Jacket	-	-
	Shielded	UL20549, High Flex / Bending PUR	M12A06ML-12AMR-SN ⑩*	M12A06ML-12AFR-SN ⑩*
		UL2517, PVC Jacket (Yellow)	MSAS06ML-SASMR-SA ⑩*	MSAS06ML-SASFR-SA ⑩*
		UL20549, PUR Jacket	MSAS06ML-SASMR-SB ⑩*	MSAS06ML-SASFR-SB ⑩*
		UL2517, PVC Jacket (Black)	MSAS06ML-SASMR-SD ⑩*	MSAS06ML-SASFR-SD ⑩*
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAS06ML-SASMR-SN ⑩*	MSAS06ML-SASFR-SN ⑩*

* Upon Request

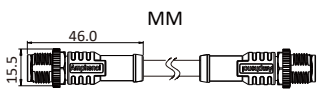
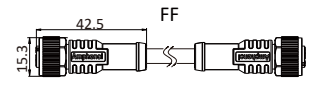
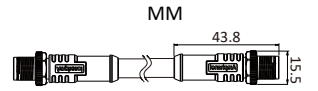
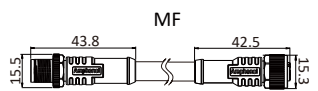
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

6			8	
A			A	
30V			30V	
2A			2A	
FM	MPronto-12 (M/M)	FF	MM	MF
				
-	-	MSAP06FL-SAPFL-SA ¹⁰ *	MSAP08ML-SAPML-SA ¹⁰ *	MSAP08ML-SAPFL-SA ¹⁰ *
-	-	MSAP06FL-SAPFL-SB ¹⁰	MSAP08ML-SAPML-SB ¹⁰	MSAP08ML-SAPFL-SB ¹⁰
-	-	MSAP06FL-SAPFL-SD ¹⁰	MSAP08ML-SAPML-SD ¹⁰	MSAP08ML-SAPFL-SD ¹⁰
-	-	-	MSAP08ML-SAPML-SE ¹⁰ *	MSAP08ML-SAPFL-SE ¹⁰ *
-	-	MSAP06FL-SAPFL-SN ¹⁰ *	MSAP08ML-SAPML-SN ¹⁰ *	MSAP08ML-SAPFL-SN ¹⁰ *
-	M12A06ML-12AML-PA ¹⁰ *	M12A06FL-12AFL-SA ¹⁰ *	M12A08ML-12AML-SA ¹⁰ *	M12A08ML-12AFL-SA ¹⁰ *
-	M12A06ML-12AML-PB ¹⁰ *	M12A06FL-12AFL-SB ¹⁰	M12A08ML-12AML-SB ¹⁰	M12A08ML-12AFL-SB ¹⁰
-	M12A06ML-12AML-PD ¹⁰ *	M12A06FL-12AFL-SD ¹⁰	M12A08ML-12AML-SD ¹⁰	M12A08ML-12AFL-SD ¹⁰
-	-	-	M12A08ML-12AML-SE ¹⁰ *	M12A08ML-12AFL-SE ¹⁰ *
-	M12A06ML-SAPML-PN ¹⁰ *	M12A06FL-12AFL-SN ¹⁰ *	M12A08ML-12AML-SN ¹⁰ *	M12A08ML-12AFL-SN ¹⁰ *
-	MSAS06ML-SASML-PA ¹⁰ *	MSAS06FL-SASFL-SA ¹⁰ *	MSAS08ML-SASML-SA ¹⁰ *	MSAS08ML-SASFL-SA ¹⁰ *
-	MSAS06ML-SASML-PB ¹⁰ *	MSAS06FL-SASFL-SB ¹⁰ *	MSAS08ML-SASML-SB ¹⁰	MSAS08ML-SASFL-SB ¹⁰
-	MSAS06ML-SASML-PD ¹⁰ *	MSAS06FL-SASFL-SD ¹⁰ *	MSAS08ML-SASML-SD ¹⁰	MSAS08ML-SASFL-SD ¹⁰
-	-	-	MSAS08ML-SASML-SE ¹⁰ *	MSAS08ML-SASFL-SE ¹⁰ *
-	MSAS06ML-SASML-PN ¹⁰ *	MSAS06FL-SASFL-SN ¹⁰ *	MSAS08ML-SASML-SN ¹⁰ *	MSAS08ML-SASFL-SN ¹⁰ *
-	SM12A06ML-12AML-PA ¹⁰ *	SM12A06FL-12AFL-SA ¹⁰ *	SM12A08ML-12AML-SA ¹⁰ *	SM12A08ML-12AFL-SA ¹⁰ *
-	SM12A06ML-12AML-PB ¹⁰ *	SM12A06FL-12AFL-SB ¹⁰ *	SM12A08ML-12AML-SB ¹⁰ *	SM12A08ML-12AFL-SB ¹⁰ *
-	SM12A06ML-12AML-PD ¹⁰ *	SM12A06FL-12AFL-SD ¹⁰ *	SM12A08ML-12AML-SD ¹⁰ *	SM12A08ML-12AFL-SD ¹⁰ *
-	-	-	SM12A08ML-12AML-SE ¹⁰ *	SM12A08ML-12AFL-SE ¹⁰ *
-	SM12A06ML-SAPML-PN ¹⁰ *	SM12A06FL-12AFL-SN ¹⁰ *	SM12A08ML-12AML-SN ¹⁰ *	SM12A08ML-12AFL-SN ¹⁰ *
-	SMSAS06ML-SASML-PA ¹⁰ *	SMSAS06FL-SASFL-SA ¹⁰ *	SMSAS08ML-SASML-SA ¹⁰ *	SMSAS08ML-SASFL-SA ¹⁰ *
-	SMSAS06ML-SASML-PB ¹⁰ *	SMSAS06FL-SASFL-SB ¹⁰ *	SMSAS08ML-SASML-SB ¹⁰ *	SMSAS08ML-SASFL-SB ¹⁰ *
-	SMSAS06ML-SASML-PD ¹⁰ *	SMSAS06FL-SASFL-SD ¹⁰ *	SMSAS08ML-SASML-SD ¹⁰ *	SMSAS08ML-SASFL-SD ¹⁰ *
-	-	-	SMSAS08ML-SASML-SE ¹⁰ *	SMSAS08ML-SASFL-SE ¹⁰ *
-	SMSAS06ML-SASML-PN ¹⁰ *	SMSAS06FL-SASFL-SN ¹⁰ *	SMSAS08ML-SASML-SN ¹⁰ *	SMSAS08ML-SASFL-SN ¹⁰ *
MSAP06FL-SAPMR-SA ¹⁰ *	-	MSAP06FL-SAPFR-SA ¹⁰ *	MSAP08ML-SAPMR-SA ¹⁰ *	MSAP08ML-SAPFR-SA ¹⁰ *
MSAP06FL-SAPMR-SB ¹⁰	-	MSAP06FL-SAPFR-SB ¹⁰	MSAP08ML-SAPMR-SB ¹⁰	MSAP08ML-SAPFR-SB ¹⁰
MSAP06FL-SAPMR-SD ¹⁰	-	MSAP06FL-SAPFR-SD ¹⁰	MSAP08ML-SAPMR-SD ¹⁰	MSAP08ML-SAPFR-SD ¹⁰
-	-	-	MSAP08ML-SAPMR-SE ¹⁰ *	MSAP08ML-SAPFR-SE ¹⁰ *
MSAP06FL-SAPMR-SN ¹⁰ *	-	MSAP06FL-SAPFR-SN ¹⁰ *	MSAP08ML-SAPMR-SN ¹⁰ *	MSAP08ML-SAPFR-SN ¹⁰ *
M12A06FL-12AMR-SA ¹⁰ *	M12A06ML-12AMR-PA ¹⁰ *	M12A06FL-12AFR-SA ¹⁰ *	M12A08ML-12AMR-SA ¹⁰ *	M12A08ML-12AFR-SA ¹⁰ *
M12A06FL-12AMR-SB ¹⁰	M12A06ML-12AMR-PB ¹⁰ *	M12A06FL-12AFR-SB ¹⁰	M12A08ML-12AMR-SB ¹⁰	M12A08ML-12AFR-SB ¹⁰
M12A06FL-12AMR-SD ¹⁰	M12A06ML-12AMR-PD ¹⁰ *	M12A06FL-12AFR-SD ¹⁰	M12A08ML-12AMR-SD ¹⁰	M12A08ML-12AFR-SD ¹⁰
-	-	-	M12A08ML-12AMR-SE ¹⁰ *	M12A08ML-12AFR-SE ¹⁰ *
M12A06FL-12AMR-SN ¹⁰ *	M12A06ML-SAPMR-PN ¹⁰ *	M12A06FL-12AFR-SN ¹⁰ *	M12A08ML-12AMR-SN ¹⁰ *	M12A08ML-12AFR-SN ¹⁰ *
MSAS06FL-SASMR-SA ¹⁰ *	MSAS06ML-SASMR-PA ¹⁰ *	MSAS06FL-SASFR-SA ¹⁰ *	MSAS08ML-SASMR-SA ¹⁰ *	MSAS08ML-SASFR-SA ¹⁰ *
MSAS06FL-SASMR-SB ¹⁰ *	MSAS06ML-SASMR-PB ¹⁰ *	MSAS06FL-SASFR-SB ¹⁰ *	MSAS08ML-SASMR-SB ¹⁰ *	MSAS08ML-SASFR-SB ¹⁰ *
MSAS06FL-SASMR-SD ¹⁰ *	MSAS06ML-SASMR-PD ¹⁰ *	MSAS06FL-SASFR-SD ¹⁰ *	MSAS08ML-SASMR-SD ¹⁰ *	MSAS08ML-SASFR-SD ¹⁰ *
-	-	-	MSAS08ML-SASMR-SE ¹⁰ *	MSAS08ML-SASFR-SE ¹⁰ *
MSAS06FL-SASMR-SN ¹⁰ *	MSAS06ML-SASMR-PN ¹⁰ *	MSAS06FL-SASFR-SN ¹⁰ *	MSAS08ML-SASMR-SN ¹⁰ *	MSAS08ML-SASFR-SN ¹⁰ *

Number of Contacts	8	
Coding	A	
Rated Voltage (AC/DC)	30V	
Nominal current	2A	
Pin Assignment	FM	MPronto-12 (M/M)
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

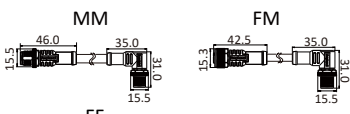
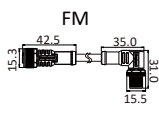
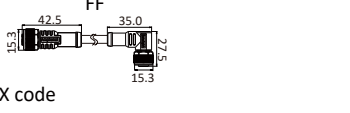
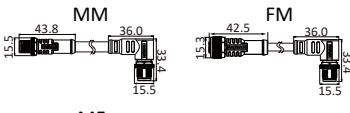
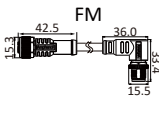
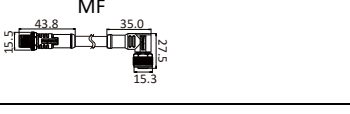
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A code   X code  	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	-	M12A08ML-12AML-PA 10 *
		UL20549, PUR Jacket	-	M12A08ML-12AML-PB 10
		UL2517, PVC Jacket (Black)	-	M12A08ML-12AML-PD 10
		Cat. 5e, PUR Jacket	-	M12A08ML-12AML-PE 10 *
		UL20549, High Flex / Bending PUR	-	M12A08ML-SAPML-PN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	-	MSAS08ML-SASML-PA 10 *
		UL20549, PUR Jacket	-	MSAS08ML-SASML-PB 10 *
		UL2517, PVC Jacket (Black)	-	MSAS08ML-SASML-PD 10 *
		Cat. 5e, PUR Jacket	-	MSAS08ML-SASML-PE 10 *
		UL20549, High Flex / Bending PUR	-	MSAS08ML-SASML-PN 10 *
	Stainless	Cat. 6A, PUR Jacket (LSZH)	-	-
		UL2517, PVC Jacket (Yellow)	-	SM12A08ML-12AML-PA 10 *
		UL20549, PUR Jacket	-	SM12A08ML-12AML-PB 10 *
		UL2517, PVC Jacket (Black)	-	SM12A08ML-12AML-PD 10 *
		Cat. 5e, PUR Jacket	-	SM12A08ML-12AML-PE 10 *
	Stainless Shielded	UL20549, High Flex / Bending PUR	-	SM12A08ML-SAPML-PN 10 *
		UL2517, PVC Jacket (Yellow)	-	SMSAS08ML-SASML-PA 10 *
		UL20549, PUR Jacket	-	SMSAS08ML-SASML-PB 10 *
		UL2517, PVC Jacket (Black)	-	SMSAS08ML-SASML-PD 10 *
		Cat. 5e, PUR Jacket	-	SMSAS08ML-SASML-PE 10 *
		UL20549, High Flex / Bending PUR	-	SMSAS08ML-SASML-PN 10 *
		Cat. 6A, PUR Jacket (LSZH)	-	-

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A code    X code   	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP08FL-SAPMR-SA 10 *	-
		UL20549, PUR Jacket	MSAP08FL-SAPMR-SB 10	-
		UL2517, PVC Jacket (Black)	MSAP08FL-SAPMR-SD 10	-
		Cat. 5e, PUR Jacket	MSAP08FL-SAPMR-SE 10 *	-
		UL20549, High Flex / Bending PUR	MSAP08FL-SAPMR-SN 10 *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A08FL-12AMR-SA 10 *	M12A08ML-12AMR-PA 10 *
		UL20549, PUR Jacket	M12A08FL-12AMR-SB 10	M12A08ML-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	M12A08FL-12AMR-SD 10	M12A08ML-12AMR-PD 10 *
		Cat. 5e, PUR Jacket	M12A08FL-12AMR-SE 10 *	M12A08ML-12AMR-PE 10 *
		UL20549, High Flex / Bending PUR	M12A08FL-12AMR-SN 10 *	M12A08ML-SAPMR-PN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS08FL-SASMR-SA 10	MSAS08ML-SASMR-PA 10 *
		UL20549, PUR Jacket	MSAS08FL-SASMR-SB 10	MSAS08ML-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	MSAS08FL-SASMR-SD 10	MSAS08ML-SASMR-PD 10 *
		Cat. 5e, PUR Jacket	MSAS08FL-SASMR-SE 10	MSAS08ML-SASMR-PE 10 *
		UL20549, High Flex / Bending PUR	MSAS08FL-SASMR-SN 10 *	MSAS08ML-SASMR-PN 10 *
		Cat. 6A, PUR Jacket (LSZH)	-	-

* Upon Request

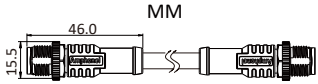
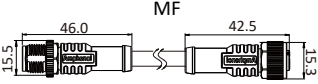
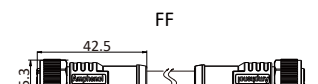
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

8	8			
A	X (CAT.6A)			
30V	30V			
2A	2A			
FF	MM	MF	FM	MPronto-12 (M/M)
				
MSAP08FL-SAPFL-SA ¹⁰ *	-	-	-	-
MSAP08FL-SAPFL-SB ¹⁰	-	-	-	-
MSAP08FL-SAPFL-SD ¹⁰	-	-	-	-
MSAP08FL-SAPFL-SE ¹⁰ *	-	-	-	-
MSAP08FL-SAPFL-SN ¹⁰ *	-	-	-	-
M12A08FL-12AFL-SA ¹⁰ *	-	-	-	-
M12A08FL-12AFL-SB ¹⁰	-	-	-	-
M12A08FL-12AFL-SD ¹⁰	-	-	-	-
M12A08FL-12AFL-SE ¹⁰ *	-	-	-	-
M12A08FL-12AFL-SN ¹⁰ *	-	-	-	-
MSAS08FL-SASFL-SA ¹⁰ *	-	-	-	-
MSAS08FL-SASFL-SB ¹⁰	-	-	-	-
MSAS08FL-SASFL-SD ¹⁰	-	-	-	-
MSAS08FL-SASFL-SE ¹⁰ *	-	-	-	-
MSAS08FL-SASFL-SN ¹⁰ *	MSXS08ML-SXSML-SN ¹⁰ *	MSXS08ML-SXSFL-SN ¹⁰ *	-	MSXS08ML-SXSML-PN ¹⁰ *
-	MSXS08ML-SXSML-SX ¹⁰	MSXS08ML-SXSFL-SX ¹⁰ *	-	MSXS08ML-SXSML-PX ¹⁰
SM12A08FL-12AFL-SA ¹⁰ *	-	-	-	-
SM12A08FL-12AFL-SB ¹⁰ *	-	-	-	-
SM12A08FL-12AFL-SD ¹⁰ *	-	-	-	-
SM12A08FL-12AFL-SE ¹⁰ *	-	-	-	-
SM12A08FL-12AFL-SN ¹⁰ *	-	-	-	-
SMSAS08FL-SASFL-SA ¹⁰ *	-	-	-	-
SMSAS08FL-SASFL-SB ¹⁰ *	-	-	-	-
SMSAS08FL-SASFL-SD ¹⁰ *	-	-	-	-
SMSAS08FL-SASFL-SE ¹⁰ *	-	-	-	-
SMSAS08FL-SASFL-SN ¹⁰ *	SMSXS08ML-SXSML-SN ¹⁰ *	SMSXS08ML-SXSFL-SN ¹⁰ *	-	SMSXS08ML-SXSML-PN ¹⁰ *
-	SMSXS08ML-SXSML-SX ¹⁰ *	SMSXS08ML-SXSFL-SX ¹⁰ *	-	SMSXS08ML-SXSML-PX ¹⁰ *
MSAP08FL-SAPFR-SA ¹⁰ *	-	-	-	-
MSAP08FL-SAPFR-SB ¹⁰	-	-	-	-
MSAP08FL-SAPFR-SD ¹⁰	-	-	-	-
MSAP08FL-SAPFR-SE ¹⁰ *	-	-	-	-
MSAP08FL-SAPFR-SN ¹⁰ *	-	-	-	-
M12A08FL-12AFR-SA ¹⁰ *	-	-	-	-
M12A08FL-12AFR-SB ¹⁰	-	-	-	-
M12A08FL-12AFR-SD ¹⁰	-	-	-	-
M12A08FL-12AFR-SE ¹⁰ *	-	-	-	-
M12A08FL-12AFR-SN ¹⁰ *	-	-	-	-
MSAS08FL-SASFR-SA ¹⁰ *	-	-	-	-
MSAS08FL-SASFR-SB ¹⁰ *	-	-	-	-
MSAS08FL-SASFR-SD ¹⁰ *	-	-	-	-
MSAS08FL-SASFR-SE ¹⁰ *	-	-	-	-
MSAS08FL-SASFR-SN ¹⁰ *	MSXS08ML-SXSFR-SN ¹⁰ *	MSXS08ML-SXSFR-SX ¹⁰ *	MSXS08FL-SXSFR-SN ¹⁰ *	MSXS08ML-SXSFR-PN ¹⁰ *
-	MSXS08ML-SXSFR-SX ¹⁰	MSXS08ML-SXSFR-SX ¹⁰ *	MSXS08FL-SXSFR-SX ¹⁰ *	MSXS08ML-SXSFR-PX ¹⁰ *

Number of Contacts	8	8
Coding	X (CAT.6A)	Y (Hybrid)*
Rated Voltage (AC/DC)	30V	60V
Nominal current	2A	0.5A / 6A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact		

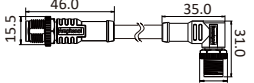
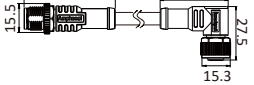
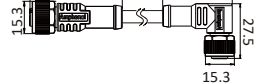
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A, Y code  MM MF  MF X code FF  FF	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
	Metal Nut	UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Shielded	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
	Stainless	UL20549, High Flex / Bending PUR	-	-
		UL2517, PVC Jacket (Yellow)	-	MSYS08ML-SYSML-SA 10 *
		UL20549, PUR Jacket	-	MSYS08ML-SYSML-SB 10 *
	Stainless Shielded	UL2517, PVC Jacket (Black)	-	MSYS08ML-SYSML-SD 10 *
		Cat. 6A, PUR Jacket (LSZH)	MSXS08FL-SXSFL-SN 10 *	-
			MSXS08FL-SXSFL-SX 10 *	-
	Stainless	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
	Stainless Shielded	UL20549, High Flex / Bending PUR	-	-
		UL2517, PVC Jacket (Yellow)	-	SMSYS08ML-SYSML-SA 10 *
		UL20549, PUR Jacket	-	SMSYS08ML-SYSML-SB 10 *
		UL2517, PVC Jacket (Black)	-	SMSYS08ML-SYSML-SD 10 *
	Stainless Shielded	UL20549, High Flex / Bending PUR	SMSXS08FL-SXSFL-SN 10 *	-
		Cat. 6A, PUR Jacket (LSZH)	SMSXS08FL-SXSFL-SX 10 *	-

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A, Y code MM  MM MF  MF X code FF  FF	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
	Metal Nut	UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Shielded	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
	Stainless	UL20549, High Flex / Bending PUR	-	-
		UL2517, PVC Jacket (Yellow)	-	MSYS08ML-SYSMR-SA 10 *
		UL20549, PUR Jacket	-	MSYS08ML-SYSMR-SB 10 *
	Stainless Shielded	UL2517, PVC Jacket (Black)	-	MSYS08ML-SYSMR-SD 10 *
		UL20549, High Flex / Bending PUR	MSXS08FL-SXSFR-SN 10 *	-
		Cat. 6A, PUR Jacket (LSZH)	MSXS08FL-SXSFR-SX 10 *	-

* Upon Request

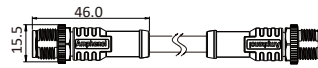
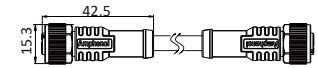
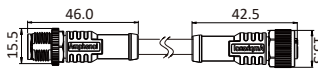
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

8		10		
Y (Hybrid)*		A		
60V		30V		
0.5A / 6A		1.5A		
MF	MPronto-12 (M/M)	MM	MF	MPronto-12 (M/M)
				
-	-	MSAP10ML-SAPML-SA ¹⁰ *	MSAP10ML-SAPFL-SA ¹⁰ *	-
-	-	MSAP10ML-SAPML-SB ¹⁰	MSAP10ML-SAPFL-SB ¹⁰	-
-	-	MSAP10ML-SAPML-SD ¹⁰	MSAP10ML-SAPFL-SD ¹⁰	-
MSAP08ML-SAPFL-SN ¹⁰ *	-	MSAP10ML-SAPML-SN ¹⁰ *	MSAP10ML-SAPFL-SN ¹⁰ *	-
-	-	M12A10ML-12AML-SA ¹⁰ *	M12A10ML-12AFL-SA ¹⁰ *	M12A10ML-12AML-PA ¹⁰ *
-	-	M12A10ML-12AML-SB ¹⁰	M12A10ML-12AFL-SB ¹⁰	M12A10ML-12AML-PB ¹⁰ *
-	-	M12A10ML-12AML-SD ¹⁰	M12A10ML-12AFL-SD ¹⁰	M12A10ML-12AML-PD ¹⁰ *
M12A08ML-12AFL-SN ¹⁰ *	-	M12A10ML-12AML-SN ¹⁰ *	M12A10ML-12AFL-SN ¹⁰ *	M12A10ML-SAPML-PN ¹⁰ *
MSAS08ML-SASFL-SA ¹⁰ *	MSYS08ML-SYSML-PA ¹⁰ *	MSAS10ML-SASML-SA ¹⁰ *	MSAS10ML-SASFL-SA ¹⁰ *	MSAS10ML-SASML-PA ¹⁰ *
MSAS08ML-SASFL-SB ¹⁰ *	MSYS08ML-SYSML-PB ¹⁰ *	MSAS10ML-SASML-SB ¹⁰ *	MSAS10ML-SASFL-SB ¹⁰ *	MSAS10ML-SASML-PB ¹⁰ *
MSAS08ML-SASFL-SD ¹⁰ *	MSYS08ML-SYSML-PD ¹⁰ *	MSAS10ML-SASML-SD ¹⁰ *	MSAS10ML-SASFL-SD ¹⁰ *	MSAS10ML-SASML-PD ¹⁰ *
MSAS08ML-SASFL-SN ¹⁰ *	-	MSAS10ML-SASML-SN ¹⁰ *	MSAS10ML-SASFL-SN ¹⁰ *	MSAS10ML-SASML-PN ¹⁰ *
-	-	-	-	-
-	-	SM12A10ML-12AML-SA ¹⁰ *	SM12A10ML-12AFL-SA ¹⁰ *	SM12A10ML-12AML-PA ¹⁰ *
-	-	SM12A10ML-12AML-SB ¹⁰ *	SM12A10ML-12AFL-SB ¹⁰ *	SM12A10ML-12AML-PB ¹⁰ *
-	-	SM12A10ML-12AML-SD ¹⁰ *	SM12A10ML-12AFL-SD ¹⁰ *	SM12A10ML-12AML-PD ¹⁰ *
SM12A08ML-12AFL-SN ¹⁰ *	-	SM12A10ML-12AML-SN ¹⁰ *	SM12A10ML-12AFL-SN ¹⁰ *	SM12A10ML-SAPML-PN ¹⁰ *
SMSAS08ML-SASFL-SA ¹⁰ *	SMSYS08ML-SYSML-PA ¹⁰ *	SMSAS10ML-SASML-SA ¹⁰ *	SMSAS10ML-SASFL-SA ¹⁰ *	SMSAS10ML-SASML-PA ¹⁰ *
SMSAS08ML-SASFL-SB ¹⁰ *	SMSYS08ML-SYSML-PB ¹⁰ *	SMSAS10ML-SASML-SB ¹⁰ *	SMSAS10ML-SASFL-SB ¹⁰ *	SMSAS10ML-SASML-PB ¹⁰ *
SMSAS08ML-SASFL-SD ¹⁰ *	SMSYS08ML-SYSML-PD ¹⁰ *	SMSAS10ML-SASML-SD ¹⁰ *	SMSAS10ML-SASFL-SD ¹⁰ *	SMSAS10ML-SASML-PD ¹⁰ *
SMSAS08ML-SASFL-SN ¹⁰ *	-	SMSAS10ML-SASML-SN ¹⁰ *	SMSAS10ML-SASFL-SN ¹⁰ *	SMSAS10ML-SASML-PN ¹⁰ *
-	-	-	-	-
-	-	MSAP10ML-SAPMR-SA ¹⁰ *	MSAP10ML-SAPFR-SA ¹⁰ *	-
-	-	MSAP10ML-SAPMR-SB ¹⁰	MSAP10ML-SAPFR-SB ¹⁰ *	-
-	-	MSAP10ML-SAPMR-SD ¹⁰	MSAP10ML-SAPFR-SD ¹⁰ *	-
-	-	MSAP10ML-SAPMR-SN ¹⁰ *	MSAP10ML-SAPFR-SN ¹⁰ *	-
-	-	M12A10ML-12AMR-SA ¹⁰ *	M12A10ML-12AFR-SA ¹⁰ *	M12A10ML-12AMR-PA ¹⁰ *
-	-	M12A10ML-12AMR-SB ¹⁰	M12A10ML-12AFR-SB ¹⁰	M12A10ML-12AMR-PB ¹⁰ *
-	-	M12A10ML-12AMR-SD ¹⁰	M12A10ML-12AFR-SD ¹⁰	M12A10ML-12AMR-PD ¹⁰ *
-	-	M12A10ML-12AMR-SN ¹⁰ *	M12A10ML-12AFR-SN ¹⁰ *	M12A10ML-SAPMR-PN ¹⁰ *
-	MSYS08ML-SYSMR-PA ¹⁰ *	MSAS10ML-SASMR-SA ¹⁰ *	MSAS10ML-SASFR-SA ¹⁰ *	MSAS10ML-SASMR-PA ¹⁰ *
-	MSYS08ML-SYSMR-PB ¹⁰ *	MSAS10ML-SASMR-SB ¹⁰ *	MSAS10ML-SASFR-SB ¹⁰ *	MSAS10ML-SASMR-PB ¹⁰ *
-	MSYS08ML-SYSMR-PD ¹⁰ *	MSAS10ML-SASMR-SD ¹⁰ *	MSAS10ML-SASFR-SD ¹⁰ *	MSAS10ML-SASMR-PD ¹⁰ *
-	-	MSAS10ML-SASMR-SN ¹⁰ *	MSAS10ML-SASFR-SN ¹⁰ *	MSAS10ML-SASMR-PN ¹⁰ *
-	-	-	-	-

Number of Contacts	10	12
Coding	A	A
Rated Voltage (AC/DC)	30V	30V
Nominal current	1.5A	1.5A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact		

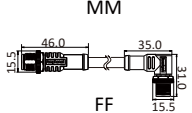
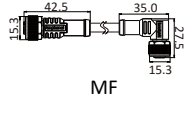
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

  	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP10FL-SAPFL-SA 10 *	MSAP12ML-SAPML-SA 10 *
		UL20549, PUR Jacket	MSAP10FL-SAPFL-SB 10	MSAP12ML-SAPML-SB 10
		UL2517, PVC Jacket (Black)	MSAP10FL-SAPFL-SD 10	MSAP12ML-SAPML-SD 10
	Metal Nut	UL20549, High Flex / Bending PUR	MSAP10FL-SAPFL-SN 10 *	MSAP12ML-SAPML-SN 10 *
		UL2517, PVC Jacket (Yellow)	M12A10FL-12AFL-SA 10 *	M12A12ML-12AML-SA 10 *
		UL20549, PUR Jacket	M12A10FL-12AFL-SB 10	M12A12ML-12AML-SB 10
	Shielded	UL2517, PVC Jacket (Black)	M12A10FL-12AFL-SD 10	M12A12ML-12AML-SD 10
		UL20549, High Flex / Bending PUR	M12A10FL-12AFL-SN 10 *	M12A12ML-12AML-SN 10 *
		UL2517, PVC Jacket (Yellow)	MSAS10FL-SASFL-SA 10 *	MSAS12ML-SASML-SA 10 *
	Stainless	UL20549, PUR Jacket	MSAS10FL-SASFL-SB 10 *	MSAS12ML-SASML-SB 10
		UL2517, PVC Jacket (Black)	MSAS10FL-SASFL-SD 10 *	MSAS12ML-SASML-SD 10
		UL20549, High Flex / Bending PUR	MSAS10FL-SASFL-SN 10 *	MSAS12ML-SASML-SN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A10FL-12AFL-SA 10 *	SM12A12ML-12AML-SA 10 *
		UL20549, PUR Jacket	SM12A10FL-12AFL-SB 10 *	SM12A12ML-12AML-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A10FL-12AFL-SD 10 *	SM12A12ML-12AML-SD 10 *
	Stainless Shielded	UL20549, High Flex / Bending PUR	SM12A10FL-12AFL-SN 10 *	SM12A12ML-12AML-SN 10 *
		UL2517, PVC Jacket (Yellow)	SMSAS10FL-SASFL-SA 10 *	SMSAS12ML-SASML-SA 10 *
		UL20549, PUR Jacket	SMSAS10FL-SASFL-SB 10 *	SMSAS12ML-SASML-SB 10 *
	Shielded	UL2517, PVC Jacket (Black)	SMSAS10FL-SASFL-SD 10 *	SMSAS12ML-SASML-SD 10 *
		UL20549, High Flex / Bending PUR	SMSAS10FL-SASFL-SN 10 *	SMSAS12ML-SASML-SN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (01) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

  	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP10FL-SAPFR-SA 10 *	MSAP12ML-SAPMR-SA 10 *
		UL20549, PUR Jacket	MSAP10FL-SAPFR-SB 10	MSAP12ML-SAPMR-SB 10
		UL2517, PVC Jacket (Black)	MSAP10FL-SAPFR-SD 10	MSAP12ML-SAPMR-SD 10
	Metal Nut	UL20549, High Flex / Bending PUR	MSAP10FL-SAPFR-SN 10 *	MSAP12ML-SAPMR-SN 10 *
		UL2517, PVC Jacket (Yellow)	M12A10FL-12AFR-SA 10 *	M12A12ML-12AMR-SA 10 *
		UL20549, PUR Jacket	M12A10FL-12AFR-SB 10	M12A12ML-12AMR-SB 10
	Shielded	UL2517, PVC Jacket (Black)	M12A10FL-12AFR-SD 10	M12A12ML-12AMR-SD 10
		UL20549, High Flex / Bending PUR	M12A10FL-12AFR-SN 10 *	M12A12ML-12AMR-SN 10 *
		UL2517, PVC Jacket (Yellow)	MSAS10FL-SASFR-SA 10 *	MSAS12ML-SASMR-SA 10 *
		UL20549, PUR Jacket	MSAS10FL-SASFR-SB 10 *	MSAS12ML-SASMR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAS10FL-SASFR-SD 10 *	MSAS12ML-SASMR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAS10FL-SASFR-SN 10 *	MSAS12ML-SASMR-SN 10 *

* Upon Request

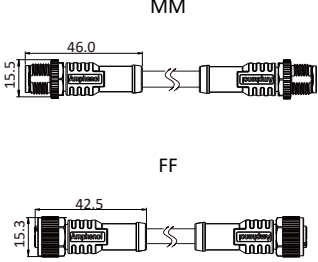
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

12			17	
A			A	
30V			30V	
1.5A			1.5A	
MF	MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)
				
MSAP12 ML -SAPFL-SA 	-	MSAP12FL-SAPFL-SA 	MSAP17 ML -SAP ML -SA 	-
MSAP12 ML -SAPFL-SB 	-	MSAP12FL-SAPFL-SB 	MSAP17 ML -SAP ML -SB 	-
MSAP12 ML -SAPFL-SD 	-	MSAP12FL-SAPFL-SD 	MSAP17 ML -SAP ML -SD 	-
MSAP12 ML -SAPFL-SN 	-	MSAP12FL-SAPFL-SN 	MSAP17 ML -SAP ML -SN 	-
M12A12 ML -12AFL-SA 	M12A12 ML -12A ML -PA 	M12A12FL-12AFL-SA 	M12A17 ML -12A ML -SA 	M12A17 ML -12A ML -PA 
M12A12 ML -12AFL-SB 	M12A12 ML -12A ML -PB 	M12A12FL-12AFL-SB 	M12A17 ML -12A ML -SB 	M12A17 ML -12A ML -PB 
M12A12 ML -12AFL-SD 	M12A12 ML -12A ML -PD 	M12A12FL-12AFL-SD 	M12A17 ML -12A ML -SD 	M12A17 ML -12A ML -PD 
M12A12 ML -12AFL-SN 	M12A12 ML -SAP ML -PN 	M12A12FL-12AFL-SN 	M12A17 ML -12A ML -SN 	M12A17 ML -SAP ML -PN 
MSAS12 ML -SASFL-SA 	MSAS12 ML -SAS ML -PA 	MSAS12FL-SASFL-SA 	MSAS17 ML -SAS ML -SA 	MSAS17 ML -SAS ML -PA 
MSAS12 ML -SASFL-SB 	MSAS12 ML -SAS ML -PB 	MSAS12FL-SASFL-SB 	MSAS17 ML -SAS ML -SB 	MSAS17 ML -SAS ML -PB 
MSAS12 ML -SASFL-SD 	MSAS12 ML -SAS ML -PD 	MSAS12FL-SASFL-SD 	MSAS17 ML -SAS ML -SD 	MSAS17 ML -SAS ML -PD 
MSAS12 ML -SASFL-SN 	MSAS12 ML -SAS ML -PN 	MSAS12FL-SASFL-SN 	MSAS17 ML -SAS ML -SN 	MSAS17 ML -SAS ML -PN 
SM12A12 ML -12AFL-SA 	SM12A12 ML -12A ML -PA 	SM12A12FL-12AFL-SA 	SM12A17 ML -12A ML -SA 	SM12A17 ML -12A ML -PA 
SM12A12 ML -12AFL-SB 	SM12A12 ML -12A ML -PB 	SM12A12FL-12AFL-SB 	SM12A17 ML -12A ML -SB 	SM12A17 ML -12A ML -PB 
SM12A12 ML -12AFL-SD 	SM12A12 ML -12A ML -PD 	SM12A12FL-12AFL-SD 	SM12A17 ML -12A ML -SD 	SM12A17 ML -12A ML -PD 
SM12A12 ML -12AFL-SN 	SM12A12 ML -SAP ML -PN 	SM12A12FL-12AFL-SN 	SM12A17 ML -12A ML -SN 	SM12A17 ML -SAP ML -PN 
SMSAS12 ML -SASFL-SA 	SMSAS12 ML -SAS ML -PA 	SMSAS12FL-SASFL-SA 	SMSAS17 ML -SAS ML -SA 	SMSAS17 ML -SAS ML -PA 
SMSAS12 ML -SASFL-SB 	SMSAS12 ML -SAS ML -PB 	SMSAS12FL-SASFL-SB 	SMSAS17 ML -SAS ML -SB 	SMSAS17 ML -SAS ML -PB 
SMSAS12 ML -SASFL-SD 	SMSAS12 ML -SAS ML -PD 	SMSAS12FL-SASFL-SD 	SMSAS17 ML -SAS ML -SD 	SMSAS17 ML -SAS ML -PD 
SMSAS12 ML -SASFL-SN 	SMSAS12 ML -SAS ML -PN 	SMSAS12FL-SASFL-SN 	SMSAS17 ML -SAS ML -SN 	SMSAS17 ML -SAS ML -PN 
-	-	MSAP12FL-SAPFR-SA 	MSAP17 ML -SAP MR -SA 	-
-	-	MSAP12FL-SAPFR-SB 	MSAP17 ML -SAP MR -SB 	-
-	-	MSAP12FL-SAPFR-SD 	MSAP17 ML -SAP MR -SD 	-
-	-	MSAP12FL-SAPFR-SN 	MSAP17 ML -SAP MR -SN 	-
-	M12A12 ML -12A MR -PA 	M12A12FL-12A FR -SA 	M12A17 ML -12A MR -SA 	M12A17 ML -12A MR -PA 
-	M12A12 ML -12A MR -PB 	M12A12FL-12A FR -SB 	M12A17 ML -12A MR -SB 	M12A17 ML -12A MR -PB 
-	M12A12 ML -12A MR -PD 	M12A12FL-12A FR -SD 	M12A17 ML -12A MR -SD 	M12A17 ML -12A MR -PD 
-	M12A12 ML -SAP MR -PN 	M12A12FL-12A FR -SN 	M12A17 ML -12A MR -SN 	M12A17 ML -SAP MR -PN 
-	MSAS12 ML -SAS MR -PA 	MSAS12FL-SAS FR -SA 	MSAS17 ML -SAS MR -SA 	MSAS17 ML -SAS MR -PA 
-	MSAS12 ML -SAS MR -PB 	MSAS12FL-SAS FR -SB 	MSAS17 ML -SAS MR -SB 	MSAS17 ML -SAS MR -PB 
-	MSAS12 ML -SAS MR -PD 	MSAS12FL-SAS FR -SD 	MSAS17 ML -SAS MR -SD 	MSAS17 ML -SAS MR -PD 
-	MSAS12 ML -SAS MR -PN 	MSAS12FL-SAS FR -SN 	MSAS17 ML -SAS MR -SN 	MSAS17 ML -SAS MR -PN 

Number of Contacts	17	18
Coding	A	A
Rated Voltage (AC/DC)	30V	30V
Nominal current	1.5A	0.5A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact		

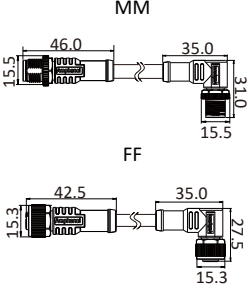
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP17FL-SAPFL-SA 10 *	MSAP18ML-SAPML-SA 10 *
		UL20549, PUR Jacket	MSAP17FL-SAPFL-SB 10 *	MSAP18ML-SAPML-SB 10 *
		UL2517, PVC Jacket (Black)	MSAP17FL-SAPFL-SD 10 *	MSAP18ML-SAPML-SD 10 *
		UL20549, High Flex / Bending PUR	MSAP17FL-SAPFL-SN 10 *	MSAP18ML-SAPML-SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A17FL-12AFL-SA 10 *	M12A18ML-12AML-SA 10 *
		UL20549, PUR Jacket	M12A17FL-12AFL-SB 10 *	M12A18ML-12AML-SB 10 *
		UL2517, PVC Jacket (Black)	M12A17FL-12AFL-SD 10 *	M12A18ML-12AML-SD 10 *
		UL20549, High Flex / Bending PUR	M12A17FL-12AFL-SN 10 *	M12A18ML-12AML-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS17FL-SASFL-SA 10 *	MSAS18ML-SASML-SA 10 *
		UL20549, PUR Jacket	MSAS17FL-SASFL-SB 10 *	MSAS18ML-SASML-SB 10 *
		UL2517, PVC Jacket (Black)	MSAS17FL-SASFL-SD 10 *	MSAS18ML-SASML-SD 10 *
		UL20549, High Flex / Bending PUR	MSAS17FL-SASFL-SN 10 *	MSAS18ML-SASML-SN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A17FL-12AFL-SA 10 *	SM12A18ML-12AML-SA 10 *
		UL20549, PUR Jacket	SM12A17FL-12AFL-SB 10 *	SM12A18ML-12AML-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A17FL-12AFL-SD 10 *	SM12A18ML-12AML-SD 10 *
		UL20549, High Flex / Bending PUR	SM12A17FL-12AFL-SN 10 *	SM12A18ML-12AML-SN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS17FL-SASFL-SA 10 *	SMSAS18ML-SASML-SA 10 *
		UL20549, PUR Jacket	SMSAS17FL-SASFL-SB 10 *	SMSAS18ML-SASML-SB 10 *
		UL2517, PVC Jacket (Black)	SMSAS17FL-SASFL-SD 10 *	SMSAS18ML-SASML-SD 10 *
		UL20549, High Flex / Bending PUR	SMSAS17FL-SASFL-SN 10 *	SMSAS18ML-SASML-SN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP17FL-SAPFR-SA 10 *	MSAP18ML-SAPMR-SA 10 *
		UL20549, PUR Jacket	MSAP17FL-SAPFR-SB 10 *	MSAP18ML-SAPMR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAP17FL-SAPFR-SD 10 *	MSAP18ML-SAPMR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAP17FL-SAPFR-SN 10 *	MSAP18ML-SAPMR-SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A17FL-12AFR-SA 10 *	M12A18ML-12AMR-SA 10 *
		UL20549, PUR Jacket	M12A17FL-12AFR-SB 10 *	M12A18ML-12AMR-SB 10 *
		UL2517, PVC Jacket (Black)	M12A17FL-12AFR-SD 10 *	M12A18ML-12AMR-SD 10 *
		UL20549, High Flex / Bending PUR	M12A17FL-12AFR-SN 10 *	M12A18ML-12AMR-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS17FL-SASFR-SA 10 *	MSAS18ML-SASMR-SA 10 *
		UL20549, PUR Jacket	MSAS17FL-SASFR-SB 10 *	MSAS18ML-SASMR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAS17FL-SASFR-SD 10 *	MSAS18ML-SASMR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAS17FL-SASFR-SN 10 *	MSAS18ML-SASMR-SN 10 *

* Upon Request

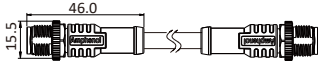
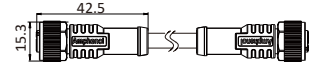
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

18		24		
A		A		
30V		30V		
0.5A		0.5A		
MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)	FF
				
-	MSAP18FL-SAPFL-SA 	MSAP24ML-SAPML-SA 	-	MSAP24FL-SAPFL-SA 
-	MSAP18FL-SAPFL-SB 	MSAP24ML-SAPML-SB 	-	MSAP24FL-SAPFL-SB 
-	MSAP18FL-SAPFL-SD 	MSAP24ML-SAPML-SD 	-	MSAP24FL-SAPFL-SD 
-	MSAP18FL-SAPFL-SN 	MSAP24ML-SAPML-SN 	-	MSAP24FL-SAPFL-SN 
M12A18ML-12AML-PA 	M12A18FL-12AFL-SA 	M12A24ML-12AML-SA 	M12A24ML-12AML-PA 	M12A24FL-12AFL-SA 
M12A18ML-12AML-PB 	M12A18FL-12AFL-SB 	M12A24ML-12AML-SB 	M12A24ML-12AML-PB 	M12A24FL-12AFL-SB 
M12A18ML-12AML-PD 	M12A18FL-12AFL-SD 	M12A24ML-12AML-SD 	M12A24ML-12AML-PD 	M12A24FL-12AFL-SD 
M12A18ML-SAPML-PN 	M12A18FL-12AFL-SN 	M12A24ML-12AML-SN 	M12A24ML-SAPML-PN 	M12A24FL-12AFL-SN 
MSAS18ML-SASML-PA 	MSAS18FL-SASFL-SA 	MSAS24ML-SASML-SA 	MSAS24ML-SASML-PA 	MSAS24FL-SASFL-SA 
MSAS18ML-SASML-PB 	MSAS18FL-SASFL-SB 	MSAS24ML-SASML-SB 	MSAS24ML-SASML-PB 	MSAS24FL-SASFL-SB 
MSAS18ML-SASML-PD 	MSAS18FL-SASFL-SD 	MSAS24ML-SASML-SD 	MSAS24ML-SASML-PD 	MSAS24FL-SASFL-SD 
MSAS18ML-SASML-PN 	MSAS18FL-SASFL-SN 	MSAS24ML-SASML-SN 	MSAS24ML-SASML-PN 	MSAS24FL-SASFL-SN 
SM12A18ML-12AML-PA 	SM12A18FL-12AFL-SA 	SM12A24ML-12AML-SA 	SM12A24ML-12AML-PA 	SM12A24FL-12AFL-SA 
SM12A18ML-12AML-PB 	SM12A18FL-12AFL-SB 	SM12A24ML-12AML-SB 	SM12A24ML-12AML-PB 	SM12A24FL-12AFL-SB 
SM12A18ML-12AML-PD 	SM12A18FL-12AFL-SD 	SM12A24ML-12AML-SD 	SM12A24ML-12AML-PD 	SM12A24FL-12AFL-SD 
SM12A18ML-SAPML-PN 	SM12A18FL-12AFL-SN 	SM12A24ML-12AML-SN 	SM12A24ML-SAPML-PN 	SM12A24FL-12AFL-SN 
SMSAS18ML-SASML-PA 	SMSAS18FL-SASFL-SA 	SMSAS24ML-SASML-SA 	SMSAS24ML-SASML-PA 	SMSAS24FL-SASFL-SA 
SMSAS18ML-SASML-PB 	SMSAS18FL-SASFL-SB 	SMSAS24ML-SASML-SB 	SMSAS24ML-SASML-PB 	SMSAS24FL-SASFL-SB 
SMSAS18ML-SASML-PD 	SMSAS18FL-SASFL-SD 	SMSAS24ML-SASML-SD 	SMSAS24ML-SASML-PD 	SMSAS24FL-SASFL-SD 
SMSAS18ML-SASML-PN 	SMSAS18FL-SASFL-SN 	SMSAS24ML-SASML-SN 	SMSAS24ML-SASML-PN 	SMSAS24FL-SASFL-SN 
-	MSAP18FL-SAPFR-SA 	MSAP24ML-SAPMR-SA 	-	MSAP24FL-SAPFR-SA 
-	MSAP18FL-SAPFR-SB 	MSAP24ML-SAPMR-SB 	-	MSAP24FL-SAPFR-SB 
-	MSAP18FL-SAPFR-SD 	MSAP24ML-SAPMR-SD 	-	MSAP24FL-SAPFR-SD 
-	MSAP18FL-SAPFR-SN 	MSAP24ML-SAPMR-SN 	-	MSAP24FL-SAPFR-SN 
M12A18ML-12AMR-PA 	M12A18FL-12AFR-SA 	M12A24ML-12AMR-SA 	M12A24ML-12AMR-PA 	M12A24FL-12AFR-SA 
M12A18ML-12AMR-PB 	M12A18FL-12AFR-SB 	M12A24ML-12AMR-SB 	M12A24ML-12AMR-PB 	M12A24FL-12AFR-SB 
M12A18ML-12AMR-PD 	M12A18FL-12AFR-SD 	M12A24ML-12AMR-SD 	M12A24ML-12AMR-PD 	M12A24FL-12AFR-SD 
M12A18ML-SAPMR-PN 	M12A18FL-12AFR-SN 	M12A24ML-12AMR-SN 	M12A24ML-SAPMR-PN 	M12A24FL-12AFR-SN 
MSAS18ML-SASMR-PA 	MSAS18FL-SASFR-SA 	MSAS24ML-SASMR-SA 	MSAS24ML-SASMR-PA 	MSAS24FL-SASFR-SA 
MSAS18ML-SASMR-PB 	MSAS18FL-SASFR-SB 	MSAS24ML-SASMR-SB 	MSAS24ML-SASMR-PB 	MSAS24FL-SASFR-SB 
MSAS18ML-SASMR-PD 	MSAS18FL-SASFR-SD 	MSAS24ML-SASMR-SD 	MSAS24ML-SASMR-PD 	MSAS24FL-SASFR-SD 
MSAS18ML-SASMR-PN 	MSAS18FL-SASFR-SN 	MSAS24ML-SASMR-SN 	MSAS24ML-SASMR-PN 	MSAS24FL-SASFR-SN 

Number of Contacts	28		
Coding	A		
Rated Voltage (AC/DC)	30V		
Nominal current	0.5A		
Pin Assignment	MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact			

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP28 ML - SAP ML -SA 10 *	-	MSAP28 FL - SAP FL -SA 10 *
		UL20549, PUR Jacket	MSAP28 ML - SAP ML -SB 10 *	-	MSAP28 FL - SAP FL -SB 10 *
		UL2517, PVC Jacket (Black)	MSAP28 ML - SAP ML -SD 10 *	-	MSAP28 FL - SAP FL -SD 10 *
		UL20549, High Flex / Bending PUR	MSAP28 ML - SAP ML -SN 10 *	-	MSAP28 FL - SAP FL -SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A28 ML - 12A ML -SA 10 *	M12A28 ML - 12A ML -PA 10 *	M12A28 FL - 12A FL -SA 10 *
		UL20549, PUR Jacket	M12A28 ML - 12A ML -SB 10 *	M12A28 ML - 12A ML -PB 10 *	M12A28 FL - 12A FL -SB 10 *
		UL2517, PVC Jacket (Black)	M12A28 ML - 12A ML -SD 10 *	M12A28 ML - 12A ML -PD 10 *	M12A28 FL - 12A FL -SD 10 *
		UL20549, High Flex / Bending PUR	M12A28 ML - 12A ML -SN 10 *	M12A28 ML - SAP ML -PN 10 *	M12A28 FL - 12A FL -SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS28 ML - SAS ML -SA 10 *	MSAS28 ML - SAS ML -PA 10 *	MSAS28 FL - SAS FL -SA 10 *
		UL20549, PUR Jacket	MSAS28 ML - SAS ML -SB 10 *	MSAS28 ML - SAS ML -PB 10 *	MSAS28 FL - SAS FL -SB 10 *
		UL2517, PVC Jacket (Black)	MSAS28 ML - SAS ML -SD 10 *	MSAS28 ML - SAS ML -PD 10 *	MSAS28 FL - SAS FL -SD 10 *
		UL20549, High Flex / Bending PUR	MSAS28 ML - SAS ML -SN 10 *	MSAS28 ML - SAS ML -PN 10 *	MSAS28 FL - SAS FL -SN 10 *

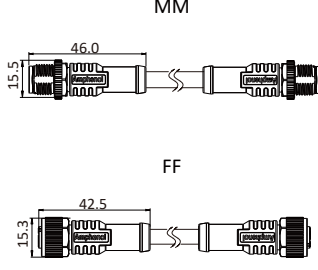
* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts	28		
Coding	A		
Rated Voltage (AC/DC)	30V		
Nominal current	0.5A		
Pin Assignment	MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact			

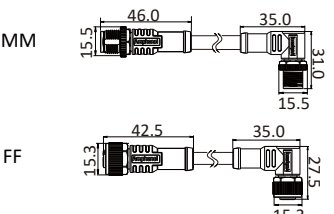
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A28ML-12AML-SA 10 *	SM12A28ML-12AML-PA 10 *	SM12A28FL-12AFL-SA 10 *
		UL20549, PUR Jacket	SM12A28ML-12AML-SB 10 *	SM12A28ML-12AML-PB 10 *	SM12A28FL-12AFL-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A28ML-12AML-SD 10 *	SM12A28ML-12AML-PD 10 *	SM12A28FL-12AFL-SD 10 *
		UL20549, High Flex / Bending PUR	SM12A28ML-12AML-SN 10 *	SAPML-PN 10 *	SM12A28FL-12AFL-SN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS28ML-SASML-SA 10 *	SMSAS28ML-SASML-PA 10 *	SMSAS28FL-SASFL-SA 10 *
		UL20549, PUR Jacket	SMSAS28ML-SASML-SB 10 *	SMSAS28ML-SASML-PB 10 *	SMSAS28FL-SASFL-SB 10 *
		UL2517, PVC Jacket (Black)	SMSAS28ML-SASML-SD 10 *	SMSAS28ML-SASML-PD 10 *	SMSAS28FL-SASFL-SD 10 *
		UL20549, High Flex / Bending PUR	SMSAS28ML-SASML-SN 10 *	SMSAS28ML-SASML-PN 10 *	SMSAS28FL-SASFL-SN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

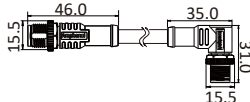
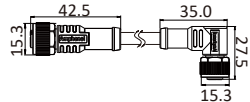
10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP28ML-SAPMR-SA 10 *	-	MSAP28FL-SAPFR-SA 10 *
		UL20549, PUR Jacket	MSAP28ML-SAPMR-SB 10 *	-	MSAP28FL-SAPFR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAP28ML-SAPMR-SD 10 *	-	MSAP28FL-SAPFR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAP28ML-SAPMR-SN 10 *	-	MSAP28FL-SAPFR-SN 10 *

Number of Contacts		28		
Coding		A		
Rated Voltage (AC/DC)		30V		
Nominal current		0.5A		
Pin Assignment		MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact				

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM FF	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A28 ML - 12AMR-SA 10 *	M12A28 ML - 12AMR-PA 10 *	M12A28 FL - 12AFR-SA 10 *
		UL20549, PUR Jacket	M12A28 ML - 12AMR-SB 10 *	M12A28 ML - 12AMR-PB 10 *	M12A28 FL - 12AFR-SB 10 *
		UL2517, PVC Jacket (Black)	M12A28 ML - 12AMR-SD 10 *	M12A28 ML - 12AMR-PD 10 *	M12A28 FL - 12AFR-SD 10 *
		UL20549, High Flex / Bending PUR	M12A28 ML - 12AMR-SN 10 *	M12A28 ML - SAPMR-PN 10 *	M12A28 FL - 12AFR-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS28 ML - SASMR-SA 10 *	MSAS28 ML - SASMR-PA 10 *	MSAS28 FL - SASFR-SA 10 *
		UL20549, PUR Jacket	MSAS28 ML - SASMR-SB 10 *	MSAS28 ML - SASMR-PB 10 *	MSAS28 FL - SASFR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAS28 ML - SASMR-SD 10 *	MSAS28 ML - SASMR-PD 10 *	MSAS28 FL - SASFR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAS28 ML - SASMR-SN 10 *	MSAS28 ML - SASMR-PN 10 *	MSAS28 FL - SASFR-SN 10 *

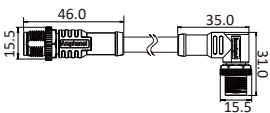
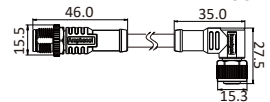
* Upon Request

1) Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts	3	
Coding	A	
Rated Voltage (AC/DC)	250V	
Nominal current	4A	
Pin Assignment	MM	MF
MM: Male Connector Male Contact MF: Male Connector Female Contact		

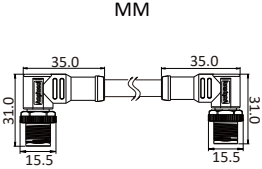
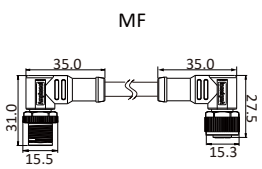
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A03ML-12AMR-SA ⑩ *	SM12A03ML-12AFR-SA ⑩ *
		UL20549, PUR Jacket	SM12A03ML-12AMR-SB ⑩ *	SM12A03ML-12AFR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SM12A03ML-12AMR-SD ⑩ *	SM12A03ML-12AFR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SM12A03ML-12AMR-SN ⑩ *	SM12A03ML-12AFR-SN ⑩ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS03ML-SASMR-SA ⑩ *	SMSAS03ML-SASFR-SA ⑩ *
		UL20549, PUR Jacket	SMSAS03ML-SASMR-SB ⑩ *	SMSAS03ML-SASFR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SMSAS03ML-SASMR-SD ⑩ *	SMSAS03ML-SASFR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SMSAS03ML-SASMR-SN ⑩ *	SMSAS03ML-SASFR-SN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

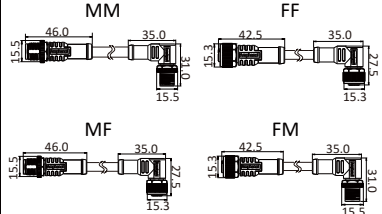
⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP03MR-SAPMR-SA ⑩ *	MSAP03MR-SAPFR-SA ⑩ *
		UL20549, PUR Jacket	MSAP03MR-SAPMR-SB ⑩	MSAP03MR-SAPFR-SB ⑩
		UL2517, PVC Jacket (Black)	MSAP03MR-SAPMR-SD ⑩	MSAP03MR-SAPFR-SD ⑩
		UL20549, High Flex / Bending PUR	MSAP03MR-SAPMR-SN ⑩ *	MSAP03MR-SAPFR-SN ⑩ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A03MR-12AMR-SA ⑩ *	M12A03MR-12AFR-SA ⑩ *
		UL20549, PUR Jacket	M12A03MR-12AMR-SB ⑩	M12A03MR-12AFR-SB ⑩
		UL2517, PVC Jacket (Black)	M12A03MR-12AMR-SD ⑩	M12A03MR-12AFR-SD ⑩
		UL20549, High Flex / Bending PUR	M12A03MR-12AMR-SN ⑩ *	M12A03MR-12AFR-SN ⑩ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS03MR-SASMR-SA ⑩ *	MSAS03MR-SASFR-SA ⑩ *
		UL20549, PUR Jacket	MSAS03MR-SASMR-SB ⑩ *	MSAS03MR-SASFR-SB ⑩ *
		UL2517, PVC Jacket (Black)	MSAS03MR-SASMR-SD ⑩ *	MSAS03MR-SASFR-SD ⑩ *
		UL20549, High Flex / Bending PUR	MSAS03MR-SASMR-SN ⑩ *	MSAS03MR-SASFR-SN ⑩ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A03MR-12AMR-SA ⑩ *	SM12A03MR-12AFR-SA ⑩ *
		UL20549, PUR Jacket	SM12A03MR-12AMR-SB ⑩ *	SM12A03MR-12AFR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SM12A03MR-12AMR-SD ⑩ *	SM12A03MR-12AFR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SM12A03MR-12AMR-SN ⑩ *	SM12A03MR-12AFR-SN ⑩ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS03MR-SASMR-SA ⑩ *	SMSAS03MR-SASFR-SA ⑩ *
		UL20549, PUR Jacket	SMSAS03MR-SASMR-SB ⑩ *	SMSAS03MR-SASFR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SMSAS03MR-SASMR-SD ⑩ *	SMSAS03MR-SASFR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SMSAS03MR-SASMR-SN ⑩ *	SMSAS03MR-SASFR-SN ⑩ *

Number of Contacts	3	
Coding	A	
Rated Voltage (AC/DC)	250V	
Nominal current	4A	
Pin Assignment	FM	MPronto-12 (M/M)
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

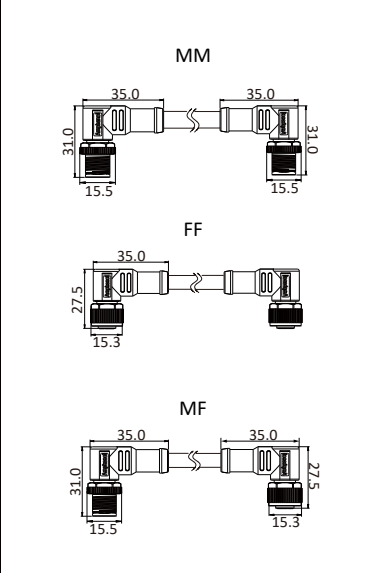
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A03FL-12AMR-SA 10 *	SM12A03ML-12AMR-PA 10 *
		UL20549, PUR Jacket	SM12A03FL-12AMR-SB 10 *	SM12A03ML-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	SM12A03FL-12AMR-SD 10 *	SM12A03ML-12AMR-PD 10 *
		UL20549, High Flex / Bending PUR	SM12A03FL-12AMR-SN 10 *	SM12A03ML-SAPMR-PN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS03FL-SASMR-SA 10 *	SMSAS03ML-SASMR-PA 10 *
		UL20549, PUR Jacket	SMSAS03FL-SASMR-SB 10 *	SMSAS03ML-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	SMSAS03FL-SASMR-SD 10 *	SMSAS03ML-SASMR-PD 10 *
		UL20549, High Flex / Bending PUR	SMSAS03FL-SASMR-SN 10 *	SMSAS03ML-SASMR-PN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	-	M12A03MR-12AMR-PA 10 *
		UL20549, PUR Jacket	-	M12A03MR-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	M12A03MR-12AMR-PD 10 *
		UL20549, High Flex / Bending PUR	-	M12A03MR-SAPMR-PN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	-	MSAS03MR-SASMR-PA 10 *
		UL20549, PUR Jacket	-	MSAS03MR-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	MSAS03MR-SASMR-PD 10 *
		UL20549, High Flex / Bending PUR	-	MSAS03MR-SASMR-PN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	-	SM12A03MR-12AMR-PA 10 *
		UL20549, PUR Jacket	-	SM12A03MR-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	SM12A03MR-12AMR-PD 10 *
		UL20549, High Flex / Bending PUR	-	SM12A03MR-SAPMR-PN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	-	SMSAS03MR-SASMR-PA 10 *
		UL20549, PUR Jacket	-	SMSAS03MR-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	SMSAS03MR-SASMR-PD 10 *
		UL20549, High Flex / Bending PUR	-	SMSAS03MR-SASMR-PN 10 *

* Upon Request

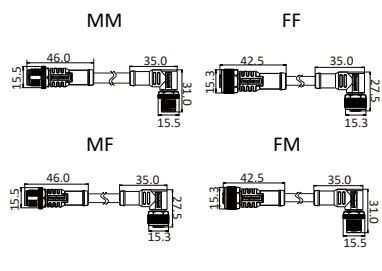
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3	4			
A	A			
250V	250V			
4A	4A			
FF	MM	MF	FM	MPronto-12 (M/M)
				
SM12A03FL-12AFR-SA 	SM12A04ML-12AMR-SA 	SM12A04ML-12AFR-SA 	SM12A04FL-12AMR-SA 	SM12A04ML-12AMR-PA 
SM12A03FL-12AFR-SB 	SM12A04ML-12AMR-SB 	SM12A04ML-12AFR-SB 	SM12A04FL-12AMR-SB 	SM12A04ML-12AMR-PB 
SM12A03FL-12AFR-SD 	SM12A04ML-12AMR-SD 	SM12A04ML-12AFR-SD 	SM12A04FL-12AMR-SD 	SM12A04ML-12AMR-PD 
SM12A03FL-12AFR-SN 	SM12A04ML-12AMR-SN 	SM12A04ML-12AFR-SN 	SM12A04FL-12AMR-SN 	SM12A04ML-SAPMR-PN 
SMSAS03FL-SASFR-SA 	SMSAS04ML-SASMR-SA 	SMSAS04ML-SASFR-SA 	SMSAS04FL-SASMR-SA 	SMSAS04ML-SASMR-PA 
SMSAS03FL-SASFR-SB 	SMSAS04ML-SASMR-SB 	SMSAS04ML-SASFR-SB 	SMSAS04FL-SASMR-SB 	SMSAS04ML-SASMR-PB 
SMSAS03FL-SASFR-SD 	SMSAS04ML-SASMR-SD 	SMSAS04ML-SASFR-SD 	SMSAS04FL-SASMR-SD 	SMSAS04ML-SASMR-PD 
SMSAS03FL-SASFR-SN 	SMSAS04ML-SASMR-SN 	SMSAS04ML-SASFR-SN 	SMSAS04FL-SASMR-SN 	SMSAS04ML-SASMR-PN 
MSAP03FR-SAPFR-SA 	MSAP04MR-SAPMR-SA 	MSAP04MR-SAPFR-SA 	-	-
MSAP03FR-SAPFR-SB 	MSAP04MR-SAPMR-SB 	MSAP04MR-SAPFR-SB 	-	-
MSAP03FR-SAPFR-SD 	MSAP04MR-SAPMR-SD 	MSAP04MR-SAPFR-SD 	-	-
MSAP03FR-SAPFR-SN 	MSAP04MR-SAPMR-SN 	MSAP04MR-SAPFR-SN 	-	-
M12A03FR-12AFR-SA 	M12A04MR-12AMR-SA 	M12A04MR-12AFR-SA 	-	M12A04MR-12AMR-PA 
M12A03FR-12AFR-SB 	M12A04MR-12AMR-SB 	M12A04MR-12AFR-SB 	-	M12A04MR-12AMR-PB 
M12A03FR-12AFR-SD 	M12A04MR-12AMR-SD 	M12A04MR-12AFR-SD 	-	M12A04MR-12AMR-PD 
M12A03FR-12AFR-SN 	M12A04MR-12AMR-SN 	M12A04MR-12AFR-SN 	-	M12A04MR-SAPMR-PN 
MSAS03FR-SASFR-SA 	MSAS04MR-SASMR-SA 	MSAS04MR-SASFR-SA 	-	MSAS04MR-SASMR-PA 
MSAS03FR-SASFR-SB 	MSAS04MR-SASMR-SB 	MSAS04MR-SASFR-SB 	-	MSAS04MR-SASMR-PB 
MSAS03FR-SASFR-SD 	MSAS04MR-SASMR-SD 	MSAS04MR-SASFR-SD 	-	MSAS04MR-SASMR-PD 
MSAS03FR-SASFR-SN 	MSAS04MR-SASMR-SN 	MSAS04MR-SASFR-SN 	-	MSAS04MR-SASMR-PN 
SM12A03FR-12AFR-SA 	SM12A04MR-12AMR-SA 	SM12A04MR-12AFR-SA 	-	SM12A04MR-12AMR-PA 
SM12A03FR-12AFR-SB 	SM12A04MR-12AMR-SB 	SM12A04MR-12AFR-SB 	-	SM12A04MR-12AMR-PB 
SM12A03FR-12AFR-SD 	SM12A04MR-12AMR-SD 	SM12A04MR-12AFR-SD 	-	SM12A04MR-12AMR-PD 
SM12A03FR-12AFR-SN 	SM12A04MR-12AMR-SN 	SM12A04MR-12AFR-SN 	-	SM12A04MR-SAPMR-PN 
SMSAS03FR-SASFR-SA 	SMSAS04MR-SASMR-SA 	SMSAS04MR-SASFR-SA 	-	SMSAS04MR-SASMR-PA 
SMSAS03FR-SASFR-SB 	SMSAS04MR-SASMR-SB 	SMSAS04MR-SASFR-SB 	-	SMSAS04MR-SASMR-PB 
SMSAS03FR-SASFR-SD 	SMSAS04MR-SASMR-SD 	SMSAS04MR-SASFR-SD 	-	SMSAS04MR-SASMR-PD 
SMSAS03FR-SASFR-SN 	SMSAS04MR-SASMR-SN 	SMSAS04MR-SASFR-SN 	-	SMSAS04MR-SASMR-PN 

Number of Contacts	4	4
Coding	A	D
Rated Voltage (AC/DC)	250V	250V
Nominal current	4A	4A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

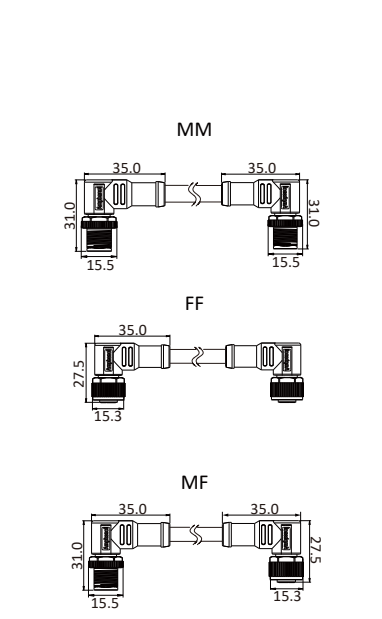
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A04FL-12AFR-SA ¹⁰ *	SM12D04ML-12DMR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12A04FL-12AFR-SB ¹⁰ *	SM12D04ML-12DMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A04FL-12AFR-SD ¹⁰ *	SM12D04ML-12DMR-SD ¹⁰ *
		Cat. 5e, PUR Jacket	-	SM12D04ML-12DMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12A04FL-12AFR-SN ¹⁰ *	SM12D04ML-12DMR-SN ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS04FL-SASFR-SA ¹⁰ *	SMSDS04ML-SDSMR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSAS04FL-SASFR-SB ¹⁰ *	SMSDS04ML-SDSMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS04FL-SASFR-SD ¹⁰ *	SMSDS04ML-SDSMR-SD ¹⁰ *
		Cat. 5e, PUR Jacket	-	SMSDS04ML-SDSMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS04FL-SASFR-SN ¹⁰ *	SMSDS04ML-SDSMR-SN ¹⁰ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP04FR-SAPFR-SA ¹⁰ *	MSDP04MR-SDPMR-SA ¹⁰ *
		UL20549, PUR Jacket	MSAP04FR-SAPFR-SB ¹⁰	MSDP04MR-SDPMR-SB ¹⁰
		UL2517, PVC Jacket (Black)	MSAP04FR-SAPFR-SD ¹⁰	MSDP04MR-SDPMR-SD ¹⁰
		Cat. 5e, PUR Jacket	-	MSDP04MR-SDPMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAP04FR-SAPFR-SN ¹⁰ *	MSDP04MR-SDPMR-SN ¹⁰ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A04FR-12AFR-SA ¹⁰ *	M12D04MR-12DMR-SA ¹⁰ *
		UL20549, PUR Jacket	M12A04FR-12AFR-SB ¹⁰	M12D04MR-12DMR-SB ¹⁰
		UL2517, PVC Jacket (Black)	M12A04FR-12AFR-SD ¹⁰	M12D04MR-12DMR-SD ¹⁰
		Cat. 5e, PUR Jacket	-	M12D04MR-12DMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	M12A04FR-12AFR-SN ¹⁰ *	M12D04MR-12DMR-SN ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS04FR-SASFR-SA ¹⁰ *	MSDS04MR-SDSMR-SA ¹⁰ *
		UL20549, PUR Jacket	MSAS04FR-SASFR-SB ¹⁰ *	MSDS04MR-SDSMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAS04FR-SASFR-SD ¹⁰ *	MSDS04MR-SDSMR-SD ¹⁰ *
		Cat. 5e, PUR Jacket	-	MSDS04MR-SDSMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAS04FR-SASFR-SN ¹⁰ *	MSDS04MR-SDSMR-SN ¹⁰ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A04FR-12AFR-SA ¹⁰ *	SM12D04MR-12DMR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12A04FR-12AFR-SB ¹⁰ *	SM12D04MR-12DMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A04FR-12AFR-SD ¹⁰ *	SM12D04MR-12DMR-SD ¹⁰ *
		Cat. 5e, PUR Jacket	-	SM12D04MR-12DMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12A04FR-12AFR-SN ¹⁰ *	SM12D04MR-12DMR-SN ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS04FR-SASFR-SA ¹⁰ *	SMSDS04MR-SDSMR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSAS04FR-SASFR-SB ¹⁰ *	SMSDS04MR-SDSMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS04FR-SASFR-SD ¹⁰ *	SMSDS04MR-SDSMR-SD ¹⁰ *
		Cat. 5e, PUR Jacket	-	SMSDS04MR-SDSMR-SE ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS04FR-SASFR-SN ¹⁰ *	SMSDS04MR-SDSMR-SN ¹⁰ *

* Upon Request

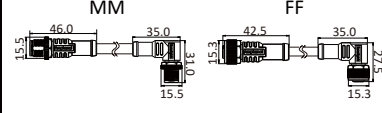
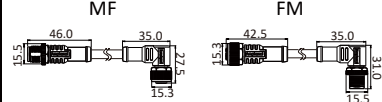
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4				5
D				A
250V				60V
4A				4A
MF	FM	MPronto-12 (M/M)	FF	MM
				
SM12D04ML-12DFR-SA 	SM12D04FL-12DMR-SA 	SM12D04ML-12DMR-PA 	SM12D04FL-12DFR-SA 	SM12A05ML-12AMR-SA 
SM12D04ML-12DFR-SB 	SM12D04FL-12DMR-SB 	SM12D04ML-12DMR-PB 	SM12D04FL-12DFR-SB 	SM12A05ML-12AMR-SB 
SM12D04ML-12DFR-SD 	SM12D04FL-12DMR-SD 	SM12D04ML-12DMR-PD 	SM12D04FL-12DFR-SD 	SM12A05ML-12AMR-SD 
SM12D04ML-12DFR-SE 	SM12D04FL-12DMR-SE 	SM12D04ML-12DMR-PE 	SM12D04FL-12DFR-SE 	-
SM12D04ML-12DFR-SN 	SM12D04FL-12DMR-SN 	SM12D04ML-SDPMR-PN 	SM12D04FL-12DFR-SN 	SM12A05ML-12AMR-SN 
SMSDS04ML-SDSFR-SA 	SMSDS04FL-SDSMR-SA 	SMSDS04ML-SDSMR-PA 	SMSDS04FL-SDSFR-SA 	SMSAS05ML-SASMR-SA 
SMSDS04ML-SDSFR-SB 	SMSDS04FL-SDSMR-SB 	SMSDS04ML-SDSMR-PB 	SMSDS04FL-SDSFR-SB 	SMSAS05ML-SASMR-SB 
SMSDS04ML-SDSFR-SD 	SMSDS04FL-SDSMR-SD 	SMSDS04ML-SDSMR-PD 	SMSDS04FL-SDSFR-SD 	SMSAS05ML-SASMR-SD 
SMSDS04ML-SDSFR-SE 	SMSDS04FL-SDSMR-SE 	SMSDS04ML-SDSMR-PE 	SMSDS04FL-SDSFR-SE 	-
SMSDS04ML-SDSFR-SN 	SMSDS04FL-SDSMR-SN 	SMSDS04ML-SDSMR-PN 	SMSDS04FL-SDSFR-SN 	SMSAS05ML-SASMR-SN 
MSDP04MR-SDPFR-SA 	-	-	MSDP04FR-SDPFR-SA 	MSAP05MR-SAPMR-SA 
MSDP04MR-SDPFR-SB 	-	-	MSDP04FR-SDPFR-SB 	MSAP05MR-SAPMR-SB 
MSDP04MR-SDPFR-SD 	-	-	MSDP04FR-SDPFR-SD 	MSAP05MR-SAPMR-SD 
MSDP04MR-SDPFR-SE 	-	-	MSDP04FR-SDPFR-SE 	-
MSDP04MR-SDPFR-SN 	-	-	MSDP04FR-SDPFR-SN 	MSAP05MR-SAPMR-SN 
M12D04MR-12DFR-SA 	-	M12D04MR-12DMR-PA 	M12D04FR-12DFR-SA 	M12A05MR-12AMR-SA 
M12D04MR-12DFR-SB 	-	M12D04MR-12DMR-PB 	M12D04FR-12DFR-SB 	M12A05MR-12AMR-SB 
M12D04MR-12DFR-SD 	-	M12D04MR-12DMR-PD 	M12D04FR-12DFR-SD 	M12A05MR-12AMR-SD 
M12D04MR-12DFR-SE 	-	M12D04MR-12DMR-PE 	M12D04FR-12DFR-SE 	-
M12D04MR-12DFR-SN 	-	M12D04MR-SDPMR-PN 	M12D04FR-12DFR-SN 	M12A05MR-12AMR-SN 
MSDS04MR-SDSFR-SA 	-	MSDS04MR-SDSMR-PA 	MSDS04FR-SDSFR-SA 	MSAS05MR-SASMR-SA 
MSDS04MR-SDSFR-SB 	-	MSDS04MR-SDSMR-PB 	MSDS04FR-SDSFR-SB 	MSAS05MR-SASMR-SB 
MSDS04MR-SDSFR-SD 	-	MSDS04MR-SDSMR-PD 	MSDS04FR-SDSFR-SD 	MSAS05MR-SASMR-SD 
MSDS04MR-SDSFR-SE 	-	MSDS04MR-SDSMR-PE 	MSDS04FR-SDSFR-SE 	-
MSDS04MR-SDSFR-SN 	-	MSDS04MR-SDSMR-PN 	MSDS04FR-SDSFR-SN 	MSAS05MR-SASMR-SN 
SM12D04MR-12DFR-SA 	-	SM12D04MR-12DMR-PA 	SM12D04FR-12DFR-SA 	SM12A05MR-12AMR-SA 
SM12D04MR-12DFR-SB 	-	SM12D04MR-12DMR-PB 	SM12D04FR-12DFR-SB 	SM12A05MR-12AMR-SB 
SM12D04MR-12DFR-SD 	-	SM12D04MR-12DMR-PD 	SM12D04FR-12DFR-SD 	SM12A05MR-12AMR-SD 
SM12D04MR-12DFR-SE 	-	SM12D04MR-12DMR-PE 	SM12D04FR-12DFR-SE 	-
SM12D04MR-12DFR-SN 	-	SM12D04MR-SDPMR-PN 	SM12D04FR-12DFR-SN 	SM12A05MR-12AMR-SN 
SMSDS04MR-SDSFR-SA 	-	SMSDS04MR-SDSMR-PA 	SMSDS04FR-SDSFR-SA 	SMSAS05MR-SASMR-SA 
SMSDS04MR-SDSFR-SB 	-	SMSDS04MR-SDSMR-PB 	SMSDS04FR-SDSFR-SB 	SMSAS05MR-SASMR-SB 
SMSDS04MR-SDSFR-SD 	-	SMSDS04MR-SDSMR-PD 	SMSDS04FR-SDSFR-SD 	SMSAS05MR-SASMR-SD 
SMSDS04MR-SDSFR-SE 	-	SMSDS04MR-SDSMR-PE 	SMSDS04FR-SDSFR-SE 	-
SMSDS04MR-SDSFR-SN 	-	SMSDS04MR-SDSMR-PN 	SMSDS04FR-SDSFR-SN 	SMSAS05MR-SASMR-SN 

Number of Contacts	5	
Coding	A	
Rated Voltage (AC/DC)	60V	
Nominal current	4A	
Pin Assignment	MF	FM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

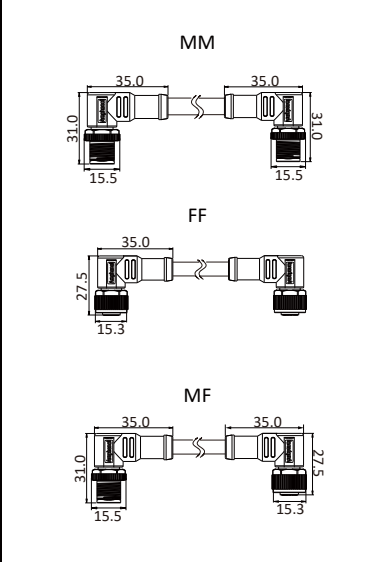
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A05ML-12AFR-SA ¹⁰ *	SM12A05FL-12AMR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12A05ML-12AFR-SB ¹⁰ *	SM12A05FL-12AMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A05ML-12AFR-SD ¹⁰ *	SM12A05FL-12AMR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12A05ML-12AFR-SN ¹⁰ *	SM12A05FL-12AMR-SN ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS05ML-SASFR-SA ¹⁰ *	SMSAS05FL-SASMR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSAS05ML-SASFR-SB ¹⁰ *	SMSAS05FL-SASMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS05ML-SASFR-SD ¹⁰ *	SMSAS05FL-SASMR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS05ML-SASFR-SN ¹⁰ *	SMSAS05FL-SASMR-SN ¹⁰ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP05MR-SAPFR-SA ¹⁰ *	-
		UL20549, PUR Jacket	MSAP05MR-SAPFR-SB ¹⁰	-
		UL2517, PVC Jacket (Black)	MSAP05MR-SAPFR-SD ¹⁰	-
		UL20549, High Flex / Bending PUR	MSAP05MR-SAPFR-SN ¹⁰ *	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A05MR-12AFR-SA ¹⁰ *	-
		UL20549, PUR Jacket	M12A05MR-12AFR-SB ¹⁰	-
		UL2517, PVC Jacket (Black)	M12A05MR-12AFR-SD ¹⁰	-
		UL20549, High Flex / Bending PUR	M12A05MR-12AFR-SN ¹⁰ *	-
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS05MR-SASFR-SA ¹⁰ *	-
		UL20549, PUR Jacket	MSAS05MR-SASFR-SB ¹⁰ *	-
		UL2517, PVC Jacket (Black)	MSAS05MR-SASFR-SD ¹⁰ *	-
		UL20549, High Flex / Bending PUR	MSAS05MR-SASFR-SN ¹⁰ *	-
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A05MR-12AFR-SA ¹⁰ *	-
		UL20549, PUR Jacket	SM12A05MR-12AFR-SB ¹⁰ *	-
		UL2517, PVC Jacket (Black)	SM12A05MR-12AFR-SD ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SM12A05MR-12AFR-SN ¹⁰ *	-
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS05MR-SASFR-SA ¹⁰ *	-
		UL20549, PUR Jacket	SMSAS05MR-SASFR-SB ¹⁰ *	-
		UL2517, PVC Jacket (Black)	SMSAS05MR-SASFR-SD ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SMSAS05MR-SASFR-SN ¹⁰ *	-

* Upon Request

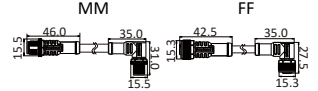
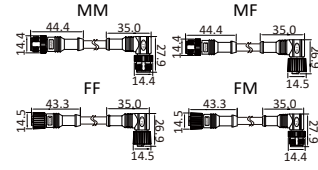
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5		5		
A		B		
60V		60V		
4A		4A		
MPronto-12 (M/M)	FF	MM	MF	FM
				
SM12A05ML-12AMR-PA 	SM12A05FL-12AFR-SA 	SM12B05ML-12BMR-SA 	SM12B05ML-12BFR-SA 	SM12B05FL-12BMR-SA 
SM12A05ML-12AMR-PB 	SM12A05FL-12AFR-SB 	SM12B05ML-12BMR-SB 	SM12B05ML-12BFR-SB 	SM12B05FL-12BMR-SB 
SM12A05ML-12AMR-PD 	SM12A05FL-12AFR-SD 	SM12B05ML-12BMR-SD 	SM12B05ML-12BFR-SD 	SM12B05FL-12BMR-SD 
SM12A05ML-SAPMR-PN 	SM12A05FL-12AFR-SN 	SM12B05ML-12BMR-SN 	SM12B05ML-12BFR-SN 	SM12B05FL-12BMR-SN 
SMSAS05ML-SASMR-PA 	SMSAS05FL-SASFR-SA 	SMSBS05ML-SBSMR-SA 	SMSBS05ML-SBSFR-SA 	SMSBS05FL-SBSMR-SA 
SMSAS05ML-SASMR-PB 	SMSAS05FL-SASFR-SB 	SMSBS05ML-SBSMR-SB 	SMSBS05ML-SBSFR-SB 	SMSBS05FL-SBSMR-SB 
SMSAS05ML-SASMR-PD 	SMSAS05FL-SASFR-SD 	SMSBS05ML-SBSMR-SD 	SMSBS05ML-SBSFR-SD 	SMSBS05FL-SBSMR-SD 
SMSAS05ML-SASMR-PN 	SMSAS05FL-SASFR-SN 	SMSBS05ML-SBSMR-SN 	SMSBS05ML-SBSFR-SN 	SMSBS05FL-SBSMR-SN 
-	MSAP05FR-SAPFR-SA 	MSBP05MR-SBPMR-SA 	MSBP05MR-SBPFR-SA 	-
-	MSAP05FR-SAPFR-SB 	MSBP05MR-SBPMR-SB 	MSBP05MR-SBPFR-SB 	-
-	MSAP05FR-SAPFR-SD 	MSBP05MR-SBPMR-SD 	MSBP05MR-SBPFR-SD 	-
-	MSAP05FR-SAPFR-SN 	MSBP05MR-SBPMR-SN 	MSBP05MR-SBPFR-SN 	-
M12A05MR-12AMR-PA 	M12A05FR-12AFR-SA 	M12B05MR-12BMR-SA 	M12B05MR-12BFR-SA 	-
M12A05MR-12AMR-PB 	M12A05FR-12AFR-SB 	M12B05MR-12BMR-SB 	M12B05MR-12BFR-SB 	-
M12A05MR-12AMR-PD 	M12A05FR-12AFR-SD 	M12B05MR-12BMR-SD 	M12B05MR-12BFR-SD 	-
M12A05MR-SAPMR-PN 	M12A05FR-12AFR-SN 	M12B05MR-12BMR-SN 	M12B05MR-12BFR-SN 	-
MSAS05MR-SASMR-PA 	MSAS05FR-SASFR-SA 	MSBS05MR-SBSMR-SA 	MSBS05MR-SBSFR-SA 	-
MSAS05MR-SASMR-PB 	MSAS05FR-SASFR-SB 	MSBS05MR-SBSMR-SB 	MSBS05MR-SBSFR-SB 	-
MSAS05MR-SASMR-PD 	MSAS05FR-SASFR-SD 	MSBS05MR-SBSMR-SD 	MSBS05MR-SBSFR-SD 	-
MSAS05MR-SASMR-PN 	MSAS05FR-SASFR-SN 	MSBS05MR-SBSMR-SN 	MSBS05MR-SBSFR-SN 	-
SM12A05MR-12AMR-PA 	SM12A05FR-12AFR-SA 	SM12B05MR-12BMR-SA 	SM12B05MR-12BFR-SA 	-
SM12A05MR-12AMR-PB 	SM12A05FR-12AFR-SB 	SM12B05MR-12BMR-SB 	SM12B05MR-12BFR-SB 	-
SM12A05MR-12AMR-PD 	SM12A05FR-12AFR-SD 	SM12B05MR-12BMR-SD 	SM12B05MR-12BFR-SD 	-
SM12A05MR-SAPMR-PN 	SM12A05FR-12AFR-SN 	SM12B05MR-12BMR-SN 	SM12B05MR-12BFR-SN 	-
SMSAS05MR-SASMR-PA 	SMSAS05FR-SASFR-SA 	SMSBS05MR-SBSMR-SA 	SMSBS05MR-SBSFR-SA 	-
SMSAS05MR-SASMR-PB	SMSAS05FR-SASFR-SB	SMSBS05MR-SBSMR-SB	SMSBS05MR-SBSFR-SB	-
SMSAS05MR-SASMR-PD	SMSAS05FR-SASFR-SD	SMSBS05MR-SBSMR-SD	SMSBS05MR-SBSFR-SD	-
SMSAS05MR-SASMR-PN	SMSAS05FR-SASFR-SN	SMSBS05MR-SBSMR-SN	SMSBS05MR-SBSFR-SN	-

Number of Contacts	5	
Coding	B	
Rated Voltage (AC/DC)	60V	
Nominal current	4A	
Pin Assignment	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

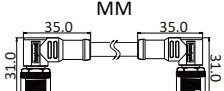
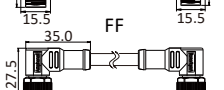
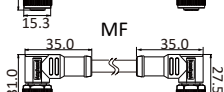
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(A)** M+Hybrid, **(C)** F+Hybrid

B code  I code 	Stainless	UL2517, PVC Jacket (Yellow)	SM12B05ML-12BMR-PA ¹⁰ *	SM12B05FL-12BFR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12B05ML-12BMR-PB ¹⁰ *	SM12B05FL-12BFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12B05ML-12BMR-PD ¹⁰ *	SM12B05FL-12BFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12B05ML-SBPMR-PN ¹⁰ *	SM12B05FL-12BFR-SN ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSBS05ML-SBSMR-PA ¹⁰ *	SMSBS05FL-SBSFR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSBS05ML-SBSMR-PB ¹⁰ *	SMSBS05FL-SBSFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSBS05ML-SBSMR-PD ¹⁰ *	SMSBS05FL-SBSFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSBS05ML-SBSMR-PN ¹⁰ *	SMSBS05FL-SBSFR-SN ¹⁰ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

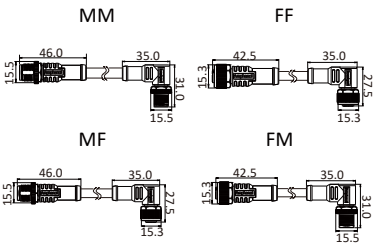
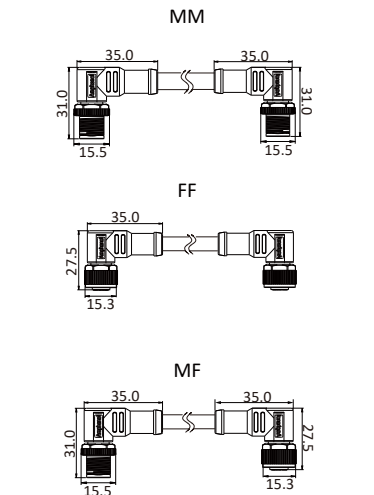
¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(A)** M+Hybrid, **(C)** F+Hybrid

B code   I code  	All Plastic	UL2517, PVC Jacket (Yellow)	-	MSBP05FR-SBPFR-SA ¹⁰ *
		UL20549, PUR Jacket	-	MSBP05FR-SBPFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	-	MSBP05FR-SBPFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	-	MSBP05FR-SBPFR-SN ¹⁰ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12B05MR-12BMR-PA ¹⁰ *	M12B05FR-12BFR-SA ¹⁰ *
		UL20549, PUR Jacket	M12B05MR-12BMR-PB ¹⁰ *	M12B05FR-12BFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	M12B05MR-12BMR-PD ¹⁰ *	M12B05FR-12BFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	M12B05MR-SBPMR-PN ¹⁰ *	M12B05FR-12BFR-SN ¹⁰ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSBS05MR-SBSMR-PA ¹⁰ *	MSBS05FR-SBSFR-SA ¹⁰ *
		UL20549, PUR Jacket	MSBS05MR-SBSMR-PB ¹⁰ *	MSBS05FR-SBSFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	MSBS05MR-SBSMR-PD ¹⁰ *	MSBS05FR-SBSFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	MSBS05MR-SBSMR-PN ¹⁰ *	MSBS05FR-SBSFR-SN ¹⁰ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12B05MR-12BMR-PA ¹⁰ *	SM12B05FR-12BFR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12B05MR-12BMR-PB ¹⁰ *	SM12B05FR-12BFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12B05MR-12BMR-PD ¹⁰ *	SM12B05FR-12BFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12B05MR-SBPMR-PN ¹⁰ *	SM12B05FR-12BFR-SN ¹⁰ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSBS05MR-SBSMR-PA ¹⁰ *	SMSBS05FR-SBSFR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSBS05MR-SBSMR-PB ¹⁰ *	SMSBS05FR-SBSFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSBS05MR-SBSMR-PD ¹⁰ *	SMSBS05FR-SBSFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSBS05MR-SBSMR-PN ¹⁰ *	SMSBS05FR-SBSFR-SN ¹⁰ *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5				
I				
60V				
4A				
Male/Hybrid	MF	FM	MPronto-12 (Male/Hybrid)	Female/Hybrid
				
SM12I05AL-12IAR-SA 10 *	SM12I05AL-12ICR-SA 10 *	SM12I05CL-12IAR-SA 10 *	SM12I05AL-12IAR-PA 10 *	SM12I05CL-12ICR-SA 10 *
SM12I05AL-12IAR-SB 10 *	SM12I05AL-12ICR-SB 10 *	SM12I05CL-12IAR-SB 10 *	SM12I05AL-12IAR-PB 10 *	SM12I05CL-12ICR-SB 10 *
SM12I05AL-12IAR-SD 10 *	SM12I05AL-12ICR-SD 10 *	SM12I05CL-12IAR-SD 10 *	SM12I05AL-12IAR-PD 10 *	SM12I05CL-12ICR-SD 10 *
SM12I05AL-12IAR-SN 10 *	SM12I05AL-12ICR-SN 10 *	SM12I05CL-12IAR-SN 10 *	SM12I05AL-SIPAR-PN 10 *	SM12I05CL-12ICR-SN 10 *
SMSIS05AL-SISAR-SA 10 *	SMSIS05AL-SISCR-SA 10 *	SMSIS05CL-SISAR-SA 10 *	SMSIS05AL-SISAR-PA 10 *	SMSIS05CL-SISCR-SA 10 *
SMSIS05AL-SISAR-SB 10 *	SMSIS05AL-SISCR-SB 10 *	SMSIS05CL-SISAR-SB 10 *	SMSIS05AL-SISAR-PB 10 *	SMSIS05CL-SISCR-SB 10 *
SMSIS05AL-SISAR-SD 10 *	SMSIS05AL-SISCR-SD 10 *	SMSIS05CL-SISAR-SD 10 *	SMSIS05AL-SISAR-PD 10 *	SMSIS05CL-SISCR-SD 10 *
SMSIS05AL-SISAR-SN 10 *	SMSIS05AL-SISCR-SN 10 *	SMSIS05CL-SISAR-SN 10 *	SMSIS05AL-SISAR-PN 10 *	SMSIS05CL-SISCR-SN 10 *
MSIP05AR-SIPAR-SA 10 *	MSIP05AR-SIPCR-SA 10 *	-	-	MSIP05CR-SIPCR-SA 10 *
MSIP05AR-SIPAR-SB 10 *	MSIP05AR-SIPCR-SB 10 *	-	-	MSIP05CR-SIPCR-SB 10 *
MSIP05AR-SIPAR-SD 10 *	MSIP05AR-SIPCR-SD 10 *	-	-	MSIP05CR-SIPCR-SD 10 *
MSIP05AR-SIPAR-SN 10 *	MSIP05AR-SIPCR-SN 10 *	-	-	MSIP05CR-SIPCR-SN 10 *
M12I05AR-12IAR-SA 10 *	M12I05AR-12ICR-SA 10 *	-	M12I05AR-12IAR-PA 10 *	M12I05CR-12ICR-SA 10 *
M12I05AR-12IAR-SB 10 *	M12I05AR-12ICR-SB 10 *	-	M12I05AR-12IAR-PB 10 *	M12I05CR-12ICR-SB 10 *
M12I05AR-12IAR-SD 10 *	M12I05AR-12ICR-SD 10 *	-	M12I05AR-12IAR-PD 10 *	M12I05CR-12ICR-SD 10 *
M12I05AR-12IAR-SN 10 *	M12I05AR-12ICR-SN 10 *	-	M12I05AR-SIPAR-PN 10 *	M12I05CR-12ICR-SN 10 *
MSIS05AR-SISAR-SA 10 *	MSIS05AR-SISCR-SA 10 *	-	MSIS05AR-SISAR-PA 10 *	MSIS05CR-SISCR-SA 10 *
MSIS05AR-SISAR-SB 10 *	MSIS05AR-SISCR-SB 10 *	-	MSIS05AR-SISAR-PB 10 *	MSIS05CR-SISCR-SB 10 *
MSIS05AR-SISAR-SD 10 *	MSIS05AR-SISCR-SD 10 *	-	MSIS05AR-SISAR-PD 10 *	MSIS05CR-SISCR-SD 10 *
MSIS05AR-SISAR-SN 10 *	MSIS05AR-SISCR-SN 10 *	-	MSIS05AR-SISAR-PN 10 *	MSIS05CR-SISCR-SN 10 *
SM12I05AR-12IAR-SA 10 *	SM12I05AR-12ICR-SA 10 *	-	SM12I05AR-12IAR-PA 10 *	SM12I05CR-12ICR-SA 10 *
SM12I05AR-12IAR-SB 10 *	SM12I05AR-12ICR-SB 10 *	-	SM12I05AR-12IAR-PB 10 *	SM12I05CR-12ICR-SB 10 *
SM12I05AR-12IAR-SD 10 *	SM12I05AR-12ICR-SD 10 *	-	SM12I05AR-12IAR-PD 10 *	SM12I05CR-12ICR-SD 10 *
SM12I05AR-12IAR-SN 10 *	SM12I05AR-12ICR-SN 10 *	-	SM12I05AR-SIPAR-PN 10 *	SM12I05CR-12ICR-SN 10 *
SMSIS05AR-SISAR-SA 10 *	SMSIS05AR-SISCR-SA 10 *	-	SMSIS05AR-SISAR-PA 10 *	SMSIS05CR-SISCR-SA 10 *
SMSIS05AR-SISAR-SB 10 *	SMSIS05AR-SISCR-SB 10 *	-	SMSIS05AR-SISAR-PB 10 *	SMSIS05CR-SISCR-SB 10 *
SMSIS05AR-SISAR-SD 10 *	SMSIS05AR-SISCR-SD 10 *	-	SMSIS05AR-SISAR-PD 10 *	SMSIS05CR-SISCR-SD 10 *
SMSIS05AR-SISAR-SN 10 *	SMSIS05AR-SISCR-SN 10 *	-	SMSIS05AR-SISAR-PN 10 *	SMSIS05CR-SISCR-SN 10 *

Number of Contacts		6		
Coding		A		
Rated Voltage (AC/DC)		30V		
Nominal current		2A		
Pin Assignment		MMMF		
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact				
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly				
10 Cable Length: (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF				
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A06ML-12AMR-SA 10 *	SM12A06ML-12AFR-SA 10 *
		UL20549, PUR Jacket	SM12A06ML-12AMR-SB 10 *	SM12A06ML-12AFR-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A06ML-12AMR-SD 10 *	SM12A06ML-12AFR-SD 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A06ML-12AMR-SN 10 *	SM12A06ML-12AFR-SN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS06ML-SASMR-SA 10 *	SMSAS06ML-SASFR-SA 10 *
		UL20549, PUR Jacket	SMSAS06ML-SASMR-SB 10 *	SMSAS06ML-SASFR-SB 10 *
		UL2517, PVC Jacket (Black)	SMSAS06ML-SASMR-SD 10 *	SMSAS06ML-SASFR-SD 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSAS06ML-SASMR-SN 10 *	SMSAS06ML-SASFR-SN 10 *
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly				
10 Cable Length: (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM, (F) FF				
	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP06MR-SAPMR-SA 10 *	MSAP06MR-SAPFR-SA 10 *
		UL20549, PUR Jacket	MSAP06MR-SAPMR-SB 10	MSAP06MR-SAPFR-SB 10
		UL2517, PVC Jacket (Black)	MSAP06MR-SAPMR-SD 10	MSAP06MR-SAPFR-SD 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAP06MR-SAPMR-SN 10 *	MSAP06MR-SAPFR-SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A06MR-12AMR-SA 10 *	M12A06MR-12AFR-SA 10 *
		UL20549, PUR Jacket	M12A06MR-12AMR-SB 10	M12A06MR-12AFR-SB 10
		UL2517, PVC Jacket (Black)	M12A06MR-12AMR-SD 10	M12A06MR-12AFR-SD 10
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12A06MR-12AMR-SN 10 *	M12A06MR-12AFR-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS06MR-SASMR-SA 10 *	MSAS06MR-SASFR-SA 10 *
		UL20549, PUR Jacket	MSAS06MR-SASMR-SB 10 *	MSAS06MR-SASFR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAS06MR-SASMR-SD 10 *	MSAS06MR-SASFR-SD 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSAS06MR-SASMR-SN 10 *	MSAS06MR-SASFR-SN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A06MR-12AMR-SA 10 *	SM12A06MR-12AFR-SA 10 *
		UL20549, PUR Jacket	SM12A06MR-12AMR-SB 10 *	SM12A06MR-12AFR-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A06MR-12AMR-SD 10 *	SM12A06MR-12AFR-SD 10 *
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12A06MR-12AMR-SN 10 *	SM12A06MR-12AFR-SN 10 *
Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS06MR-SASMR-SA 10 *	SMSAS06MR-SASFR-SA 10 *	
	UL20549, PUR Jacket	SMSAS06MR-SASMR-SB 10 *	SMSAS06MR-SASFR-SB 10 *	
	UL2517, PVC Jacket (Black)	SMSAS06MR-SASMR-SD 10 *	SMSAS06MR-SASFR-SD 10 *	
	Cat. 5e, PUR Jacket	-	-	
	UL20549, High Flex / Bending PUR	SMSAS06MR-SASMR-SN 10 *	SMSAS06MR-SASFR-SN 10 *	

* Upon Request

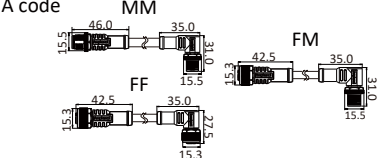
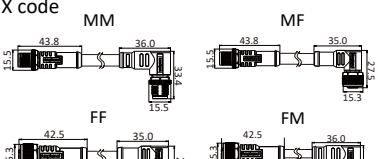
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

6			8	
A			A	
30V			30V	
2A			2A	
FM	MPronto-12 (M/M)	FF	MM	MF
				
SM12A06FL-12AMR-SA 	SM12A06ML-12AMR-PA 	SM12A06FL-12AFR-SA 	SM12A08ML-12AMR-SA 	SM12A08ML-12AFR-SA 
SM12A06FL-12AMR-SB 	SM12A06ML-12AMR-PB 	SM12A06FL-12AFR-SB 	SM12A08ML-12AMR-SB 	SM12A08ML-12AFR-SB 
SM12A06FL-12AMR-SD 	SM12A06ML-12AMR-PD 	SM12A06FL-12AFR-SD 	SM12A08ML-12AMR-SD 	SM12A08ML-12AFR-SD 
-	-	-	SM12A08ML-12AMR-SE 	SM12A08ML-12AFR-SE 
SM12A06FL-12AMR-SN 	SM12A06ML-SAPMR-PN 	SM12A06FL-12AFR-SN 	SM12A08ML-12AMR-SN 	SM12A08ML-12AFR-SN 
SMSAS06FL-SASMR-SA 	SMSAS06ML-SASMR-PA 	SMSAS06FL-SASFR-SA 	SMSAS08ML-SASMR-SA 	SMSAS08ML-SASFR-SA 
SMSAS06FL-SASMR-SB 	SMSAS06ML-SASMR-PB 	SMSAS06FL-SASFR-SB 	SMSAS08ML-SASMR-SB 	SMSAS08ML-SASFR-SB 
SMSAS06FL-SASMR-SD 	SMSAS06ML-SASMR-PD 	SMSAS06FL-SASFR-SD 	SMSAS08ML-SASMR-SD 	SMSAS08ML-SASFR-SD 
-	-	-	SMSAS08ML-SASMR-SE 	SMSAS08ML-SASFR-SE 
SMSAS06FL-SASMR-SN 	SMSAS06ML-SASMR-PN 	SMSAS06FL-SASFR-SN 	SMSAS08ML-SASMR-SN 	SMSAS08ML-SASFR-SN 
-	-	MSAP06FR-SAPFR-SA 	MSAP08MR-SAPMR-SA 	MSAP08MR-SAPFR-SA 
-	-	MSAP06FR-SAPFR-SB 	MSAP08MR-SAPMR-SB 	MSAP08MR-SAPFR-SB 
-	-	MSAP06FR-SAPFR-SD 	MSAP08MR-SAPMR-SD 	MSAP08MR-SAPFR-SD 
-	-	-	MSAP08MR-SAPMR-SE 	MSAP08MR-SAPFR-SE 
-	-	MSAP06FR-SAPFR-SN 	MSAP08MR-SAPMR-SN 	MSAP08MR-SAPFR-SN 
-	M12A06MR-12AMR-PA 	M12A06FR-12AFR-SA 	M12A08MR-12AMR-SA 	M12A08MR-12AFR-SA 
-	M12A06MR-12AMR-PB 	M12A06FR-12AFR-SB 	M12A08MR-12AMR-SB 	M12A08MR-12AFR-SB 
-	M12A06MR-12AMR-PD 	M12A06FR-12AFR-SD 	M12A08MR-12AMR-SD 	M12A08MR-12AFR-SD 
-	-	-	M12A08MR-12AMR-SE 	M12A08MR-12AFR-SE 
-	M12A06MR-SAPMR-PN 	M12A06FR-12AFR-SN 	M12A08MR-12AMR-SN 	M12A08MR-12AFR-SN 
-	MSAS06MR-SASMR-PA 	MSAS06FR-SASFR-SA 	MSAS08MR-SASMR-SA 	MSAS08MR-SASFR-SA 
-	MSAS06MR-SASMR-PB 	MSAS06FR-SASFR-SB 	MSAS08MR-SASMR-SB 	MSAS08MR-SASFR-SB 
-	MSAS06MR-SASMR-PD 	MSAS06FR-SASFR-SD 	MSAS08MR-SASMR-SD 	MSAS08MR-SASFR-SD 
-	-	-	MSAS08MR-SASMR-SE 	MSAS08MR-SASFR-SE 
-	MSAS06MR-SASMR-PN 	MSAS06FR-SASFR-SN 	MSAS08MR-SASMR-SN 	MSAS08MR-SASFR-SN 
-	SM12A06MR-12AMR-PA 	SM12A06FR-12AFR-SA 	SM12A08MR-12AMR-SA 	SM12A08MR-12AFR-SA 
-	SM12A06MR-12AMR-PB 	SM12A06FR-12AFR-SB 	SM12A08MR-12AMR-SB 	SM12A08MR-12AFR-SB 
-	SM12A06MR-12AMR-PD 	SM12A06FR-12AFR-SD 	SM12A08MR-12AMR-SD 	SM12A08MR-12AFR-SD 
-	-	-	SM12A08MR-12AMR-SE 	SM12A08MR-12AFR-SE 
-	SM12A06MR-SAPMR-PN 	SM12A06FR-12AFR-SN 	SM12A08MR-12AMR-SN 	SM12A08MR-12AFR-SN 
-	SMSAS06MR-SASMR-PA 	SMSAS06FR-SASFR-SA 	SMSAS08MR-SASMR-SA 	SMSAS08MR-SASFR-SA 
-	SMSAS06MR-SASMR-PB 	SMSAS06FR-SASFR-SB 	SMSAS08MR-SASMR-SB 	SMSAS08MR-SASFR-SB 
-	SMSAS06MR-SASMR-PD 	SMSAS06FR-SASFR-SD 	SMSAS08MR-SASMR-SD 	SMSAS08MR-SASFR-SD 
-	-	-	SMSAS08MR-SASMR-SE 	SMSAS08MR-SASFR-SE 
-	SMSAS06MR-SASMR-PN 	SMSAS06FR-SASFR-SN 	SMSAS08MR-SASMR-SN 	SMSAS08MR-SASFR-SN 

Number of Contacts	8	
Coding	A	
Rated Voltage (AC/DC)	30V	
Nominal current	2A	
Pin Assignment	FM	MPronto-12 (M/M)
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact FM: Female Connector Male Contact		

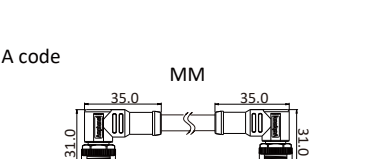
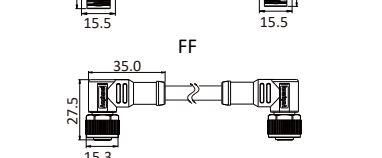
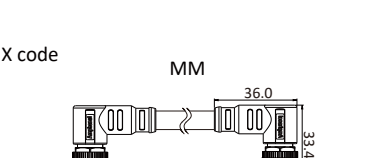
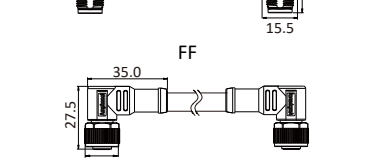
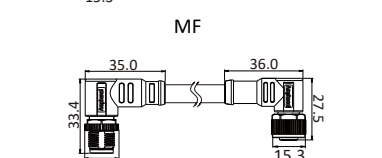
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A code 	Stainless	UL2517, PVC Jacket (Yellow)	SM12A08FL-12AMR-SA 10 *	SM12A08ML-12AMR-PA 10 *
		UL20549, PUR Jacket	SM12A08FL-12AMR-SB 10 *	SM12A08ML-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	SM12A08FL-12AMR-SD 10 *	SM12A08ML-12AMR-PD 10 *
		Cat. 5e, PUR Jacket	SM12A08FL-12AMR-SE 10 *	SM12A08ML-12AMR-PE 10 *
		UL20549, High Flex / Bending PUR	SM12A08FL-12AMR-SN 10 *	SM12A08ML-SAPMR-PN 10 *
X code 	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS08FL-SASMR-SA 10 *	SMSAS08ML-SASMR-PA 10 *
		UL20549, PUR Jacket	SMSAS08FL-SASMR-SB 10 *	SMSAS08ML-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	SMSAS08FL-SASMR-SD 10 *	SMSAS08ML-SASMR-PD 10 *
		Cat. 5e, PUR Jacket	SMSAS08FL-SASMR-SE 10 *	SMSAS08ML-SASMR-PE 10 *
		UL20549, High Flex / Bending PUR	SMSAS08FL-SASMR-SN 10 *	SMSAS08ML-SASMR-PN 10 *
		Cat. 6A, PUR Jacket (LSZH)	-	-

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A code 	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		Cat. 5e, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
X code 	Metal Nut	UL2517, PVC Jacket (Yellow)	-	M12A08MR-12AMR-PA 10 *
		UL20549, PUR Jacket	-	M12A08MR-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	M12A08MR-12AMR-PD 10 *
		Cat. 5e, PUR Jacket	-	M12A08MR-12AMR-PE 10 *
		UL20549, High Flex / Bending PUR	-	M12A08MR-SAPMR-PN 10 *
X code 	Shielded	UL2517, PVC Jacket (Yellow)	-	MSAS08MR-SASMR-PA 10 *
		UL20549, PUR Jacket	-	MSAS08MR-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	MSAS08MR-SASMR-PD 10 *
		Cat. 5e, PUR Jacket	-	MSAS08MR-SASMR-PE 10 *
		UL20549, High Flex / Bending PUR	-	MSAS08MR-SASMR-PN 10 *
		Cat. 6A, PUR Jacket (LSZH)	-	-
X code 	Stainless	UL2517, PVC Jacket (Yellow)	-	SM12A08MR-12AMR-PA 10 *
		UL20549, PUR Jacket	-	SM12A08MR-12AMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	SM12A08MR-12AMR-PD 10 *
		Cat. 5e, PUR Jacket	-	SM12A08MR-12AMR-PE 10 *
		UL20549, High Flex / Bending PUR	-	SM12A08MR-SAPMR-PN 10 *
X code 	Stainless Shielded	UL2517, PVC Jacket (Yellow)	-	SMSAS08MR-SASMR-PA 10 *
		UL20549, PUR Jacket	-	SMSAS08MR-SASMR-PB 10 *
		UL2517, PVC Jacket (Black)	-	SMSAS08MR-SASMR-PD 10 *
		Cat. 5e, PUR Jacket	-	SMSAS08MR-SASMR-PE 10 *
		UL20549, High Flex / Bending PUR	-	SMSAS08MR-SASMR-PN 10 *
		Cat. 6A, PUR Jacket (LSZH)	-	-

* Upon Request

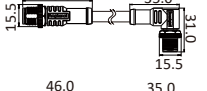
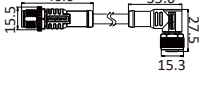
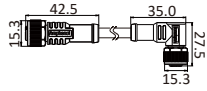
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

8	8			
A	X (CAT.6A)			
30V	30V			
2A	2A			
FF	MM	MF	FM	MPronto-12 (M/M)
				
SM12A08FL-12AFR-SA ¹⁰ *	-	-	-	-
SM12A08FL-12AFR-SB ¹⁰ *	-	-	-	-
SM12A08FL-12AFR-SD ¹⁰ *	-	-	-	-
SM12A08FL-12AFR-SE ¹⁰ *	-	-	-	-
SM12A08FL-12AFR-SN ¹⁰ *	-	-	-	-
SMSAS08FL-SASFR-SA ¹⁰ *	-	-	-	-
SMSAS08FL-SASFR-SB ¹⁰ *	-	-	-	-
SMSAS08FL-SASFR-SD ¹⁰ *	-	-	-	-
SMSAS08FL-SASFR-SE ¹⁰ *	-	-	-	-
SMSAS08FL-SASFR-SN ¹⁰ *	SMSXS08ML-SXS ^{MR} -SN ¹⁰ *	SMSXS08ML-SXS ^{FR} -SN ¹⁰ *	SMSXS08FL-SXS ^{MR} -SN ¹⁰ *	SMSXS08ML-SXS ^{MR} -PN ¹⁰ *
-	SMSXS08ML-SXS ^{MR} -SX ¹⁰ *	SMSXS08ML-SXS ^{FR} -SX ¹⁰ *	SMSXS08FL-SXS ^{MR} -SX ¹⁰ *	SMSXS08ML-SXS ^{MR} -PX ¹⁰ *
MSAP08FR-SAPFR-SA ¹⁰ *	-	-	-	-
MSAP08FR-SAPFR-SB ¹⁰ *	-	-	-	-
MSAP08FR-SAPFR-SD ¹⁰ *	-	-	-	-
MSAP08FR-SAPFR-SE ¹⁰ *	-	-	-	-
MSAP08FR-SAPFR-SN ¹⁰ *	-	-	-	-
M12A08FR-12AFR-SA ¹⁰ *	-	-	-	-
M12A08FR-12AFR-SB ¹⁰ *	-	-	-	-
M12A08FR-12AFR-SD ¹⁰ *	-	-	-	-
M12A08FR-12AFR-SE ¹⁰ *	-	-	-	-
M12A08FR-12AFR-SN ¹⁰ *	-	-	-	-
MSAS08FR-SASFR-SA ¹⁰ *	-	-	-	-
MSAS08FR-SASFR-SB ¹⁰ *	-	-	-	-
MSAS08FR-SASFR-SD ¹⁰ *	-	-	-	-
MSAS08FR-SASFR-SE ¹⁰ *	-	-	-	-
MSAS08FR-SASFR-SN ¹⁰ *	MSXS08MR-SXS ^{MR} -SN ¹⁰ *	MSXS08MR-SXS ^{FR} -SN ¹⁰ *	-	MSXS08MR-SXS ^{MR} -PN ¹⁰ *
-	MSXS08MR-SXS ^{MR} -SX ¹⁰ *	MSXS08MR-SXS ^{FR} -SX ¹⁰ *	-	MSXS08MR-SXS ^{MR} -PX ¹⁰ *
SM12A08FR-12AFR-SA ¹⁰ *	-	-	-	-
SM12A08FR-12AFR-SB ¹⁰ *	-	-	-	-
SM12A08FR-12AFR-SD ¹⁰ *	-	-	-	-
SM12A08FR-12AFR-SE ¹⁰ *	-	-	-	-
SM12A08FR-12AFR-SN ¹⁰ *	-	-	-	-
SMSAS08FR-SASFR-SA ¹⁰ *	-	-	-	-
SMSAS08FR-SASFR-SB ¹⁰ *	-	-	-	-
SMSAS08FR-SASFR-SD ¹⁰ *	-	-	-	-
SMSAS08FR-SASFR-SE ¹⁰ *	-	-	-	-
SMSAS08FR-SASFR-SN ¹⁰ *	SMSXS08MR-SXS ^{MR} -SN ¹⁰ *	SMSXS08MR-SXS ^{FR} -SN ¹⁰ *	-	SMSXS08MR-SXS ^{MR} -PN ¹⁰ *
-	SMSXS08MR-SXS ^{MR} -SX ¹⁰ *	SMSXS08MR-SXS ^{FR} -SX ¹⁰ *	-	SMSXS08MR-SXS ^{MR} -PX ¹⁰ *

Number of Contacts	8	8
Coding	X (CAT.6A)	Y (Hybrid)*
Rated Voltage (AC/DC)	30V	60V
Nominal current	2A	0.5A / 6A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact		

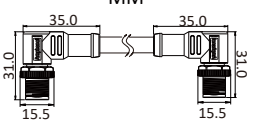
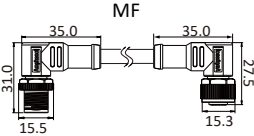
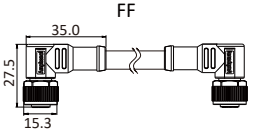
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A, Y code MM  MF  X code FF 	Stainless	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	-	SMSYS08ML-SYSMR-SA ¹⁰ *
		UL20549, PUR Jacket	-	SMSYS08ML-SYSMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	-	SMSYS08ML-SYSMR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSXS08FL-SXSFR-SN ¹⁰ *	-
		Cat. 6A, PUR Jacket (LSZH)	SMSXS08FL-SXSFR-SX ¹⁰ *	-

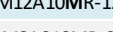
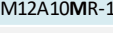
RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

A, Y code MM  MF  X code FF 	All Plastic	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
		UL20549, High Flex / Bending PUR	-	-
	Shielded	UL2517, PVC Jacket (Yellow)	-	MSYS08MR-SYSMR-SA ¹⁰ *
		UL20549, PUR Jacket	-	MSYS08MR-SYSMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	-	MSYS08MR-SYSMR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	MSXS08FR-SXSFR-SN ¹⁰ *	-
	Stainless	Cat. 6A, PUR Jacket (LSZH)	MSXS08FR-SXSFR-SX ¹⁰ *	-
		UL2517, PVC Jacket (Yellow)	-	-
		UL20549, PUR Jacket	-	-
		UL2517, PVC Jacket (Black)	-	-
	Stainless Shielded	UL20549, High Flex / Bending PUR	-	-
		UL2517, PVC Jacket (Yellow)	-	SMSYS08MR-SYSMR-SA ¹⁰ *
		UL20549, PUR Jacket	-	SMSYS08MR-SYSMR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	-	SMSYS08MR-SYSMR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSXS08FR-SXSFR-SN ¹⁰ *	-
		Cat. 6A, PUR Jacket (LSZH)	SMSXS08FR-SXSFR-SX ¹⁰ *	-

* Upon Request

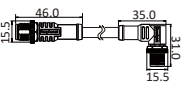
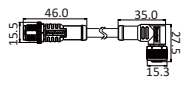
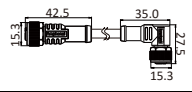
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

8		10		
Y (Hybrid)*		A		
60V		30V		
0.5A / 6A		1.5A		
MF	MPronto-12 (M/M)	MM	MF	MPronto-12 (M/M)
				
-	-	SM12A10ML-12AMR-SA 	SM12A10ML-12AFR-SA 	SM12A10ML-12AMR-PA 
-	-	SM12A10ML-12AMR-SB 	SM12A10ML-12AFR-SB 	SM12A10ML-12AMR-PB 
-	-	SM12A10ML-12AMR-SD 	SM12A10ML-12AFR-SD 	SM12A10ML-12AMR-PD 
-	-	SM12A10ML-12AMR-SN 	SM12A10ML-12AFR-SN 	SM12A10ML-SAPMR-PN 
-	SMSYS08ML-SYSMR-PA 	SMSAS10ML-SASMR-SA 	SMSAS10ML-SASFR-SA 	SMSAS10ML-SASMR-PA 
-	SMSYS08ML-SYSMR-PB 	SMSAS10ML-SASMR-SB 	SMSAS10ML-SASFR-SB 	SMSAS10ML-SASMR-PB 
-	SMSYS08ML-SYSMR-PD 	SMSAS10ML-SASMR-SD 	SMSAS10ML-SASFR-SD 	SMSAS10ML-SASMR-PD 
-	-	SMSAS10ML-SASMR-SN 	SMSAS10ML-SASFR-SN 	SMSAS10ML-SASMR-PN 
-	-	-	-	-
-	-	MSAP10MR-SAPMR-SA 	MSAP10MR-SAPFR-SA 	-
-	-	MSAP10MR-SAPMR-SB 	MSAP10MR-SAPFR-SB 	-
-	-	MSAP10MR-SAPMR-SD 	MSAP10MR-SAPFR-SD 	-
MSAP10MR-SAPFR-SN 	-	MSAP10MR-SAPMR-SN 	MSAP10MR-SAPFR-SN 	-
-	-	M12A10MR-12AMR-SA 	M12A10MR-12AFR-SA 	M12A10MR-12AMR-PA 
-	-	M12A10MR-12AMR-SB 	M12A10MR-12AFR-SB 	M12A10MR-12AMR-PB 
-	-	M12A10MR-12AMR-SD 	M12A10MR-12AFR-SD 	M12A10MR-12AMR-PD 
M12A10MR-12AFR-SN 	-	M12A10MR-12AMR-SN 	M12A10MR-12AFR-SN 	M12A10MR-SAPMR-PN 
MSAS10MR-SASFR-SA 	MSYS08MR-SYSMR-PA 	MSAS10MR-SASMR-SA 	MSAS10MR-SASFR-SA 	MSAS10MR-SASMR-PA 
MSAS10MR-SASFR-SB 	MSYS08MR-SYSMR-PB 	MSAS10MR-SASMR-SB 	MSAS10MR-SASFR-SB 	MSAS10MR-SASMR-PB 
MSAS10MR-SASFR-SD 	MSYS08MR-SYSMR-PD 	MSAS10MR-SASMR-SD 	MSAS10MR-SASFR-SD 	MSAS10MR-SASMR-PD 
MSAS10MR-SASFR-SN 	-	MSAS10MR-SASMR-SN 	MSAS10MR-SASFR-SN 	MSAS10MR-SASMR-PN 
-	-	-	-	-
-	-	SM12A10MR-12AMR-SA 	SM12A10MR-12AFR-SA 	SM12A10MR-12AMR-PA 
-	-	SM12A10MR-12AMR-SB 	SM12A10MR-12AFR-SB 	SM12A10MR-12AMR-PB 
-	-	SM12A10MR-12AMR-SD 	SM12A10MR-12AFR-SD 	SM12A10MR-12AMR-PD 
SM12A10MR-12AFR-SN 	-	SM12A10MR-12AMR-SN 	SM12A10MR-12AFR-SN 	SM12A10MR-SAPMR-PN 
SMSAS10MR-SASFR-SA 	SMSYS08MR-SYSMR-PA 	SMSAS10MR-SASMR-SA 	SMSAS10MR-SASFR-SA 	SMSAS10MR-SASMR-PA 
SMSAS10MR-SASFR-SB 	SMSYS08MR-SYSMR-PB 	SMSAS10MR-SASMR-SB 	SMSAS10MR-SASFR-SB 	SMSAS10MR-SASMR-PB 
SMSAS10MR-SASFR-SD 	SMSYS08MR-SYSMR-PD 	SMSAS10MR-SASMR-SD 	SMSAS10MR-SASFR-SD 	SMSAS10MR-SASMR-PD 
SMSAS10MR-SASFR-SN 	-	SMSAS10MR-SASMR-SN 	SMSAS10MR-SASFR-SN 	SMSAS10MR-SASMR-PN 
-	-	-	-	-

Number of Contacts	10	12
Coding	A	A
Rated Voltage (AC/DC)	30V	30V
Nominal current	1.5A	1.5A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact MF: Male Connector Female Contact		

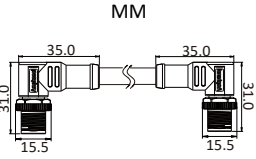
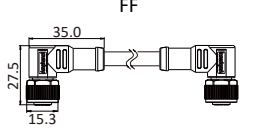
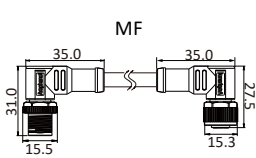
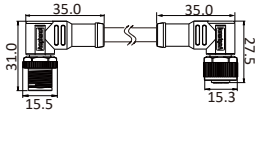
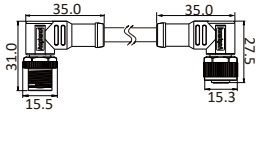
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A10FL-12AFR-SA ⑩ *	SM12A12ML-12AMR-SA ⑩ *
		UL20549, PUR Jacket	SM12A10FL-12AFR-SB ⑩ *	SM12A12ML-12AMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SM12A10FL-12AFR-SD ⑩ *	SM12A12ML-12AMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SM12A10FL-12AFR-SN ⑩ *	SM12A12ML-12AMR-SN ⑩ *
	Stainless	UL2517, PVC Jacket (Yellow)	SMSAS10FL-SASFR-SA ⑩ *	SMSAS12ML-SASMR-SA ⑩ *
		UL20549, PUR Jacket	SMSAS10FL-SASFR-SB ⑩ *	SMSAS12ML-SASMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SMSAS10FL-SASFR-SD ⑩ *	SMSAS12ML-SASMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SMSAS10FL-SASFR-SN ⑩ *	SMSAS12ML-SASMR-SN ⑩ *
	Shielded	UL2517, PVC Jacket (Yellow)	SMSAS10FL-SASFR-SA ⑩ *	SMSAS12ML-SASMR-SA ⑩ *
		UL20549, PUR Jacket	SMSAS10FL-SASFR-SB ⑩ *	SMSAS12ML-SASMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SMSAS10FL-SASFR-SD ⑩ *	SMSAS12ML-SASMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SMSAS10FL-SASFR-SN ⑩ *	SMSAS12ML-SASMR-SN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP10FR-SAPFR-SA ⑩ *	MSAP12MR-SAPMR-SA ⑩ *
		UL20549, PUR Jacket	MSAP10FR-SAPFR-SB ⑩ *	MSAP12MR-SAPMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	MSAP10FR-SAPFR-SD ⑩ *	MSAP12MR-SAPMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	MSAP10FR-SAPFR-SN ⑩ *	MSAP12MR-SAPMR-SN ⑩ *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A10FR-12AFR-SA ⑩ *	M12A12MR-12AMR-SA ⑩ *
		UL20549, PUR Jacket	M12A10FR-12AFR-SB ⑩ *	M12A12MR-12AMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	M12A10FR-12AFR-SD ⑩ *	M12A12MR-12AMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	M12A10FR-12AFR-SN ⑩ *	M12A12MR-12AMR-SN ⑩ *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS10FR-SASFR-SA ⑩ *	MSAS12MR-SASMR-SA ⑩ *
		UL20549, PUR Jacket	MSAS10FR-SASFR-SB ⑩ *	MSAS12MR-SASMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	MSAS10FR-SASFR-SD ⑩ *	MSAS12MR-SASMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	MSAS10FR-SASFR-SN ⑩ *	MSAS12MR-SASMR-SN ⑩ *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A10FR-12AFR-SA ⑩ *	SM12A12MR-12AMR-SA ⑩ *
		UL20549, PUR Jacket	SM12A10FR-12AFR-SB ⑩ *	SM12A12MR-12AMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SM12A10FR-12AFR-SD ⑩ *	SM12A12MR-12AMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SM12A10FR-12AFR-SN ⑩ *	SM12A12MR-12AMR-SN ⑩ *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS10FR-SASFR-SA ⑩ *	SMSAS12MR-SASMR-SA ⑩ *
		UL20549, PUR Jacket	SMSAS10FR-SASFR-SB ⑩ *	SMSAS12MR-SASMR-SB ⑩ *
		UL2517, PVC Jacket (Black)	SMSAS10FR-SASFR-SD ⑩ *	SMSAS12MR-SASMR-SD ⑩ *
		UL20549, High Flex / Bending PUR	SMSAS10FR-SASFR-SN ⑩ *	SMSAS12MR-SASMR-SN ⑩ *

* Upon Request

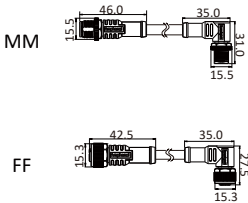
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

12			17	
A			A	
30V			30V	
1.5A			1.5A	
MF	MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)
				
-	SM12A12 ML -12 AMR -PA 	SM12A12 FL -12 AFR -SA 	SM12A17 ML -12 AMR -SA 	SM12A17 ML -12 AMR -PA 
-	SM12A12 ML -12 AMR -PB 	SM12A12 FL -12 AFR -SB 	SM12A17 ML -12 AMR -SB 	SM12A17 ML -12 AMR -PB 
-	SM12A12 ML -12 AMR -PD 	SM12A12 FL -12 AFR -SD 	SM12A17 ML -12 AMR -SD 	SM12A17 ML -12 AMR -PD 
-	SM12A12 ML -SAP MR -PN 	SM12A12 FL -12 AFR -SN 	SM12A17 ML -12 AMR -SN 	SM12A17 ML -SAP MR -PN 
-	SMSAS12 ML -SAS MR -PA 	SMSAS12 FL -SAS FR -SA 	SMSAS17 ML -SAS MR -SA 	SMSAS17 ML -SAS MR -PA 
-	SMSAS12 ML -SAS MR -PB 	SMSAS12 FL -SAS FR -SB 	SMSAS17 ML -SAS MR -SB 	SMSAS17 ML -SAS MR -PB 
-	SMSAS12 ML -SAS MR -PD 	SMSAS12 FL -SAS FR -SD 	SMSAS17 ML -SAS MR -SD 	SMSAS17 ML -SAS MR -PD 
-	SMSAS12 ML -SAS MR -PN 	SMSAS12 FL -SAS FR -SN 	SMSAS17 ML -SAS MR -SN 	SMSAS17 ML -SAS MR -PN 
MSAP12 MR -SAP FR -SA 	-	MSAP12 FR -SAP FR -SA 	MSAP17 MR -SAP MR -SA 	-
MSAP12 MR -SAP FR -SB 	-	MSAP12 FR -SAP FR -SB 	MSAP17 MR -SAP MR -SB 	-
MSAP12 MR -SAP FR -SD 	-	MSAP12 FR -SAP FR -SD 	MSAP17 MR -SAP MR -SD 	-
MSAP12 MR -SAP FR -SN 	-	MSAP12 FR -SAP FR -SN 	MSAP17 MR -SAP MR -SN 	-
M12A12 MR -12 AFR -SA 	M12A12 MR -12 AMR -PA 	M12A12 FR -12 AFR -SA 	M12A17 MR -12 AMR -SA 	M12A17 MR -12 AMR -PA 
M12A12 MR -12 AFR -SB 	M12A12 MR -12 AMR -PB 	M12A12 FR -12 AFR -SB 	M12A17 MR -12 AMR -SB 	M12A17 MR -12 AMR -PB 
M12A12 MR -12 AFR -SD 	M12A12 MR -12 AMR -PD 	M12A12 FR -12 AFR -SD 	M12A17 MR -12 AMR -SD 	M12A17 MR -12 AMR -PD 
M12A12 MR -12 AFR -SN 	M12A12 MR -SAP MR -PN 	M12A12 FR -12 AFR -SN 	M12A17 MR -12 AMR -SN 	M12A17 MR -SAP MR -PN 
MSAS12 MR -SAS FR -SA 	MSAS12 MR -SAS MR -PA 	MSAS12 FR -SAS FR -SA 	MSAS17 MR -SAS MR -SA 	MSAS17 MR -SAS MR -PA 
MSAS12 MR -SAS FR -SB 	MSAS12 MR -SAS MR -PB 	MSAS12 FR -SAS FR -SB 	MSAS17 MR -SAS MR -SB 	MSAS17 MR -SAS MR -PB 
MSAS12 MR -SAS FR -SD 	MSAS12 MR -SAS MR -PD 	MSAS12 FR -SAS FR -SD 	MSAS17 MR -SAS MR -SD 	MSAS17 MR -SAS MR -PD 
MSAS12 MR -SAS FR -SN 	MSAS12 MR -SAS MR -PN 	MSAS12 FR -SAS FR -SN 	MSAS17 MR -SAS MR -SN 	MSAS17 MR -SAS MR -PN 
SM12A12 MR -12 AFR -SA 	SM12A12 MR -12 AMR -PA 	SM12A12 FR -12 AFR -SA 	SM12A17 MR -12 AMR -SA 	SM12A17 MR -12 AMR -PA 
SM12A12 MR -12 AFR -SB 	SM12A12 MR -12 AMR -PB 	SM12A12 FR -12 AFR -SB 	SM12A17 MR -12 AMR -SB 	SM12A17 MR -12 AMR -PB 
SM12A12 MR -12 AFR -SD 	SM12A12 MR -12 AMR -PD 	SM12A12 FR -12 AFR -SD 	SM12A17 MR -12 AMR -SD 	SM12A17 MR -12 AMR -PD 
SM12A12 MR -12 AFR -SN 	SM12A12 MR -SAP MR -PN 	SM12A12 FR -12 AFR -SN 	SM12A17 MR -12 AMR -SN 	SM12A17 MR -SAP MR -PN 
SMSAS12 MR -SAS FR -SA 	SMSAS12 MR -SAS MR -PA 	SMSAS12 FR -SAS FR -SA 	SMSAS17 MR -SAS MR -SA 	SMSAS17 MR -SAS MR -PA 
SMSAS12 MR -SAS FR -SB 	SMSAS12 MR -SAS MR -PB 	SMSAS12 FR -SAS FR -SB 	SMSAS17 MR -SAS MR -SB 	SMSAS17 MR -SAS MR -PB 
SMSAS12 MR -SAS FR -SD 	SMSAS12 MR -SAS MR -PD 	SMSAS12 FR -SAS FR -SD 	SMSAS17 MR -SAS MR -SD 	SMSAS17 MR -SAS MR -PD 
SMSAS12 MR -SAS FR -SN	SMSAS12 MR -SAS MR -PN	SMSAS12 FR -SAS FR -SN	SMSAS17 MR -SAS MR -SN	SMSAS17 MR -SAS MR -PN

Number of Contacts	17	18
Coding	A	A
Rated Voltage (AC/DC)	30V	30V
Nominal current	1.5A	0.5A
Pin Assignment	FF	MM
MM: Male Connector Male Contact FF: Female Connector Female Contact		

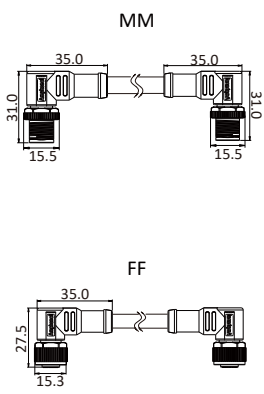
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF

	Stainless	UL2517, PVC Jacket (Yellow)	SM12A17FL-12AFR-SA 10 *	SM12A18ML-12AMR-SA 10 *
		UL20549, PUR Jacket	SM12A17FL-12AFR-SB 10 *	SM12A18ML-12AMR-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A17FL-12AFR-SD 10 *	SM12A18ML-12AMR-SD 10 *
		UL20549, High Flex / Bending PUR	SM12A17FL-12AFR-SN 10 *	SM12A18ML-12AMR-SN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS17FL-SASFR-SA 10 *	SMSAS18ML-SASMR-SA 10 *
		UL20549, PUR Jacket	SMSAS17FL-SASFR-SB 10 *	SMSAS18ML-SASMR-SB 10 *
		UL2517, PVC Jacket (Black)	SMSAS17FL-SASFR-SD 10 *	SMSAS18ML-SASMR-SD 10 *
		UL20549, High Flex / Bending PUR	SMSAS17FL-SASFR-SN 10 *	SMSAS18ML-SASMR-SN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF

	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP17FR-SAPFR-SA 10 *	MSAP18MR-SAPMR-SA 10 *
		UL20549, PUR Jacket	MSAP17FR-SAPFR-SB 10 *	MSAP18MR-SAPMR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAP17FR-SAPFR-SD 10 *	MSAP18MR-SAPMR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAP17FR-SAPFR-SN 10 *	MSAP18MR-SAPMR-SN 10 *
	Metal Nut	UL2517, PVC Jacket (Yellow)	M12A17FR-12AFR-SA 10 *	M12A18MR-12AMR-SA 10 *
		UL20549, PUR Jacket	M12A17FR-12AFR-SB 10 *	M12A18MR-12AMR-SB 10 *
		UL2517, PVC Jacket (Black)	M12A17FR-12AFR-SD 10 *	M12A18MR-12AMR-SD 10 *
		UL20549, High Flex / Bending PUR	M12A17FR-12AFR-SN 10 *	M12A18MR-12AMR-SN 10 *
	Shielded	UL2517, PVC Jacket (Yellow)	MSAS17FR-SASFR-SA 10 *	MSAS18MR-SASMR-SA 10 *
		UL20549, PUR Jacket	MSAS17FR-SASFR-SB 10 *	MSAS18MR-SASMR-SB 10 *
		UL2517, PVC Jacket (Black)	MSAS17FR-SASFR-SD 10 *	MSAS18MR-SASMR-SD 10 *
		UL20549, High Flex / Bending PUR	MSAS17FR-SASFR-SN 10 *	MSAS18MR-SASMR-SN 10 *
	Stainless	UL2517, PVC Jacket (Yellow)	SM12A17FR-12AFR-SA 10 *	SM12A18MR-12AMR-SA 10 *
		UL20549, PUR Jacket	SM12A17FR-12AFR-SB 10 *	SM12A18MR-12AMR-SB 10 *
		UL2517, PVC Jacket (Black)	SM12A17FR-12AFR-SD 10 *	SM12A18MR-12AMR-SD 10 *
		UL20549, High Flex / Bending PUR	SM12A17FR-12AFR-SN 10 *	SM12A18MR-12AMR-SN 10 *
	Stainless Shielded	UL2517, PVC Jacket (Yellow)	SMSAS17FR-SASFR-SA 10 *	SMSAS18MR-SASMR-SA 10 *
		UL20549, PUR Jacket	SMSAS17FR-SASFR-SB 10 *	SMSAS18MR-SASMR-SB 10 *
		UL2517, PVC Jacket (Black)	SMSAS17FR-SASFR-SD 10 *	SMSAS18MR-SASMR-SD 10 *
		UL20549, High Flex / Bending PUR	SMSAS17FR-SASFR-SN 10 *	SMSAS18MR-SASMR-SN 10 *

* Upon Request

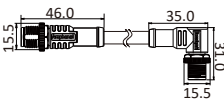
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

18		24		
A		A		
30V		30V		
0.5A		0.5A		
MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)	FF
				
SM12A18 ML -12A MR -PA 	SM12A18 FL -12A FR -SA 	SM12A24 ML -12A MR -SA 	SM12A24 ML -12A MR -PA 	SM12A24 FL -12A FR -SA 
SM12A18 ML -12A MR -PB 	SM12A18 FL -12A FR -SB 	SM12A24 ML -12A MR -SB 	SM12A24 ML -12A MR -PB 	SM12A24 FL -12A FR -SB 
SM12A18 ML -12A MR -PD 	SM12A18 FL -12A FR -SD 	SM12A24 ML -12A MR -SD 	SM12A24 ML -12A MR -PD 	SM12A24 FL -12A FR -SD 
SM12A18 ML -SAP MR -PN 	SM12A18 FL -12A FR -SN 	SM12A24 ML -12A MR -SN 	SM12A24 ML -SAP MR -PN 	SM12A24 FL -12A FR -SN 
SMSAS18 ML -SAS MR -PA 	SMSAS18 FL -SAS FR -SA 	SMSAS24 ML -SAS MR -SA 	SMSAS24 ML -SAS MR -PA 	SMSAS24 FL -SAS FR -SA 
SMSAS18 ML -SAS MR -PB 	SMSAS18 FL -SAS FR -SB 	SMSAS24 ML -SAS MR -SB 	SMSAS24 ML -SAS MR -PB 	SMSAS24 FL -SAS FR -SB 
SMSAS18 ML -SAS MR -PD 	SMSAS18 FL -SAS FR -SD 	SMSAS24 ML -SAS MR -SD 	SMSAS24 ML -SAS MR -PD 	SMSAS24 FL -SAS FR -SD 
SMSAS18 ML -SAS MR -PN 	SMSAS18 FL -SAS FR -SN 	SMSAS24 ML -SAS MR -SN 	SMSAS24 ML -SAS MR -PN 	SMSAS24 FL -SAS FR -SN 
-	MSAP18 FR -SAP FR -SA 	MSAP24 MR -SAP MR -SA 	-	MSAP24 FR -SAP FR -SA 
-	MSAP18 FR -SAP FR -SB 	MSAP24 MR -SAP MR -SB 	-	MSAP24 FR -SAP FR -SB 
-	MSAP18 FR -SAP FR -SD 	MSAP24 MR -SAP MR -SD 	-	MSAP24 FR -SAP FR -SD 
-	MSAP18 FR -SAP FR -SN 	MSAP24 MR -SAP MR -SN 	-	MSAP24 FR -SAP FR -SN 
M12A18 MR -12A MR -PA 	M12A18 FR -12A FR -SA 	M12A24 MR -12A MR -SA 	M12A24 MR -12A MR -PA 	M12A24 FR -12A FR -SA 
M12A18 MR -12A MR -PB 	M12A18 FR -12A FR -SB 	M12A24 MR -12A MR -SB 	M12A24 MR -12A MR -PB 	M12A24 FR -12A FR -SB 
M12A18 MR -12A MR -PD 	M12A18 FR -12A FR -SD 	M12A24 MR -12A MR -SD 	M12A24 MR -12A MR -PD 	M12A24 FR -12A FR -SD 
M12A18 MR -SAP MR -PN 	M12A18 FR -12A FR -SN 	M12A24 MR -12A MR -SN 	M12A24 MR -SAP MR -PN 	M12A24 FR -12A FR -SN 
MSAS18 MR -SAS MR -PA 	MSAS18 FR -SAS FR -SA 	MSAS24 MR -SAS MR -SA 	MSAS24 MR -SAS MR -PA 	MSAS24 FR -SAS FR -SA 
MSAS18 MR -SAS MR -PB 	MSAS18 FR -SAS FR -SB 	MSAS24 MR -SAS MR -SB 	MSAS24 MR -SAS MR -PB 	MSAS24 FR -SAS FR -SB 
MSAS18 MR -SAS MR -PD 	MSAS18 FR -SAS FR -SD 	MSAS24 MR -SAS MR -SD 	MSAS24 MR -SAS MR -PD 	MSAS24 FR -SAS FR -SD 
MSAS18 MR -SAS MR -PN 	MSAS18 FR -SAS FR -SN 	MSAS24 MR -SAS MR -SN 	MSAS24 MR -SAS MR -PN 	MSAS24 FR -SAS FR -SN 
SM12A18 MR -12A MR -PA 	SM12A18 FR -12A FR -SA 	SM12A24 MR -12A MR -SA 	SM12A24 MR -12A MR -PA 	SM12A24 FR -12A FR -SA 
SM12A18 MR -12A MR -PB 	SM12A18 FR -12A FR -SB 	SM12A24 MR -12A MR -SB 	SM12A24 MR -12A MR -PB 	SM12A24 FR -12A FR -SB 
SM12A18 MR -12A MR -PD 	SM12A18 FR -12A FR -SD 	SM12A24 MR -12A MR -SD 	SM12A24 MR -12A MR -PD 	SM12A24 FR -12A FR -SD 
SM12A18 MR -SAP MR -PN 	SM12A18 FR -12A FR -SN 	SM12A24 MR -12A MR -SN 	SM12A24 MR -SAP MR -PN 	SM12A24 FR -12A FR -SN 
SMSAS18 MR -SAS MR -PA 	SMSAS18 FR -SAS FR -SA 	SMSAS24 MR -SAS MR -SA 	SMSAS24 MR -SAS MR -PA 	SMSAS24 FR -SAS FR -SA 
SMSAS18 MR -SAS MR -PB 	SMSAS18 FR -SAS FR -SB 	SMSAS24 MR -SAS MR -SB 	SMSAS24 MR -SAS MR -PB 	SMSAS24 FR -SAS FR -SB 
SMSAS18 MR -SAS MR -PD 	SMSAS18 FR -SAS FR -SD 	SMSAS24 MR -SAS MR -SD 	SMSAS24 MR -SAS MR -PD 	SMSAS24 FR -SAS FR -SD 
SMSAS18 MR -SAS MR -PN 	SMSAS18 FR -SAS FR -SN 	SMSAS24 MR -SAS MR -SN 	SMSAS24 MR -SAS MR -PN 	SMSAS24 FR -SAS FR -SN 

Number of Contacts	28		
Coding	A		
Rated Voltage (AC/DC)	30V		
Nominal current	0.5A		
Pin Assignment	MM	MPronto-12 (M/M)	FF
MM: Male Connector Male Contact FF: Female Connector Female Contact			
			

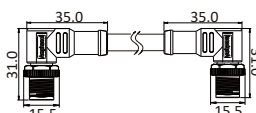
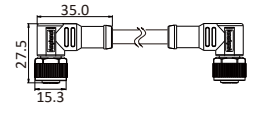
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM 	Stainless	UL2517, PVC Jacket (Yellow)	SM12A28ML-12AMR-SA ¹⁰ *	SM12A28ML-12AMR-PA ¹⁰ *	SM12A28FL-12AFR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12A28ML-12AMR-SB ¹⁰ *	SM12A28ML-12AMR-PB ¹⁰ *	SM12A28FL-12AFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A28ML-12AMR-SD ¹⁰ *	SM12A28ML-12AMR-PD ¹⁰ *	SM12A28FL-12AFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12A28ML-12AMR-SN ¹⁰ *	SAPMR-PN ¹⁰ *	SM12A28FL-12AFR-SN ¹⁰ *
		UL2517, PVC Jacket (Yellow)	SMSAS28ML-SASMR-SA ¹⁰ *	SMSAS28ML-SASMR-PA ¹⁰ *	SMSAS28FL-SASFR-SA ¹⁰ *
	Stainless Shielded	UL20549, PUR Jacket	SMSAS28ML-SASMR-SB ¹⁰ *	SMSAS28ML-SASMR-PB ¹⁰ *	SMSAS28FL-SASFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS28ML-SASMR-SD ¹⁰ *	SMSAS28ML-SASMR-PD ¹⁰ *	SMSAS28FL-SASFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS28ML-SASMR-SN ¹⁰ *	SMSAS28ML-SASMR-PN ¹⁰ *	SMSAS28FL-SASFR-SN ¹⁰ *
		UL2517, PVC Jacket (Yellow)	SMSAS28ML-SASMR-SA ¹⁰ *	SMSAS28ML-SASMR-PA ¹⁰ *	SMSAS28FL-SASFR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSAS28ML-SASMR-SB ¹⁰ *	SMSAS28ML-SASMR-PB ¹⁰ *	SMSAS28FL-SASFR-SB ¹⁰ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

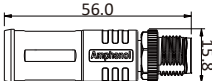
MM  FF 	All Plastic	UL2517, PVC Jacket (Yellow)	MSAP28MR-SAPMR-SA ¹⁰ *	-	MSAP28FR-SAPFR-SA ¹⁰ *
		UL20549, PUR Jacket	MSAP28MR-SAPMR-SB ¹⁰ *	-	MSAP28FR-SAPFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	MSAP28MR-SAPMR-SD ¹⁰ *	-	MSAP28FR-SAPFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAP28MR-SAPMR-SN ¹⁰ *	-	MSAP28FR-SAPFR-SN ¹⁰ *
		UL2517, PVC Jacket (Yellow)	M12A28MR-12AMR-SA ¹⁰ *	M12A28MR-12AMR-PA ¹⁰ *	M12A28FR-12AFR-SA ¹⁰ *
	Metal Nut	UL20549, PUR Jacket	M12A28MR-12AMR-SB ¹⁰ *	M12A28MR-12AMR-PB ¹⁰ *	M12A28FR-12AFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	M12A28MR-12AMR-SD ¹⁰ *	M12A28MR-12AMR-PD ¹⁰ *	M12A28FR-12AFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	M12A28MR-12AMR-SN ¹⁰ *	SAPMR-PN ¹⁰ *	M12A28FR-12AFR-SN ¹⁰ *
		UL2517, PVC Jacket (Yellow)	MSAS28MR-SASMR-SA ¹⁰ *	MSAS28MR-SASMR-PA ¹⁰ *	MSAS28FR-SASFR-SA ¹⁰ *
		UL20549, PUR Jacket	MSAS28MR-SASMR-SB ¹⁰ *	MSAS28MR-SASMR-PB ¹⁰ *	MSAS28FR-SASFR-SB ¹⁰ *
	Shielded	UL2517, PVC Jacket (Black)	MSAS28MR-SASMR-SD ¹⁰ *	MSAS28MR-SASMR-PD ¹⁰ *	MSAS28FR-SASFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	MSAS28MR-SASMR-SN ¹⁰ *	MSAS28MR-SASMR-PN ¹⁰ *	MSAS28FR-SASFR-SN ¹⁰ *
		UL2517, PVC Jacket (Yellow)	SM12A28MR-12AMR-SA ¹⁰ *	SM12A28MR-12AMR-PA ¹⁰ *	SM12A28FR-12AFR-SA ¹⁰ *
		UL20549, PUR Jacket	SM12A28MR-12AMR-SB ¹⁰ *	SM12A28MR-12AMR-PB ¹⁰ *	SM12A28FR-12AFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SM12A28MR-12AMR-SD ¹⁰ *	SM12A28MR-12AMR-PD ¹⁰ *	SM12A28FR-12AFR-SD ¹⁰ *
	Stainless	UL20549, High Flex / Bending PUR	SM12A28MR-12AMR-SN ¹⁰ *	SAPMR-PN ¹⁰ *	SM12A28FR-12AFR-SN ¹⁰ *
		UL2517, PVC Jacket (Yellow)	SMSAS28MR-SASMR-SA ¹⁰ *	SMSAS28MR-SASMR-PA ¹⁰ *	SMSAS28FR-SASFR-SA ¹⁰ *
		UL20549, PUR Jacket	SMSAS28MR-SASMR-SB ¹⁰ *	SMSAS28MR-SASMR-PB ¹⁰ *	SMSAS28FR-SASFR-SB ¹⁰ *
		UL2517, PVC Jacket (Black)	SMSAS28MR-SASMR-SD ¹⁰ *	SMSAS28MR-SASMR-PD ¹⁰ *	SMSAS28FR-SASFR-SD ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSAS28MR-SASMR-SN ¹⁰ *	SMSAS28MR-SASMR-PN ¹⁰ *	SMSAS28FR-SASFR-SN ¹⁰ *

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts	2	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	16A	
Pin Assignment	MM	MPronto-12 (M/M)
MM : Male Connector Male Contact 		

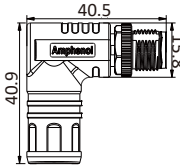
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL20233, PUR Jacket	MSLP-02BMMM-SL8H 10 *	-
		UL20549, High Flex / Bending PUR	MSLP-02BMMM-SL8N 10 *	-
	Metal Nut	UL20233, PUR Jacket	M12L-02BMMM-SL8H 10 *	M12L-02BMMM-PL8H 10 *
		UL20549, High Flex / Bending PUR	M12L-02BMMM-SL8N 10 *	M12L-02BMMM-PL8N 10 *
	Shielded	UL20233, PUR Jacket	MSLS-02BMMM-SL8H 10 *	MSLS-02BMMM-PL8H 10 *
		UL20549, High Flex / Bending PUR	MSLS-02BMMM-SL8N 10 *	MSLS-02BMMM-PL8N 10 *
	Stainless	UL20233, PUR Jacket	SM12L-02BMMM-SL8H 10 *	SM12L-02BMMM-PL8H 10 *
		UL20549, High Flex / Bending PUR	SM12L-02BMMM-SL8N 10 *	SM12L-02BMMM-PL8N 10 *
	Stainless	UL20233, PUR Jacket	SMSLS-02BMMM-SL8H 10 *	SMSLS-02BMMM-PL8H 10 *
	Shielded	UL20549, High Flex / Bending PUR	SMSLS-02BMMM-SL8N 10 *	SMSLS-02BMMM-PL8N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL20233, PUR Jacket	MSLP-02BMMM-SR8H 10 *	-
		UL20549, High Flex / Bending PUR	MSLP-02BMMM-SR8N 10 *	-
	Metal Nut	UL20233, PUR Jacket	M12L-02BMMM-SR8H 10 *	M12L-02BMMM-PR8H 10 *
		UL20549, High Flex / Bending PUR	M12L-02BMMM-SR8N 10 *	M12L-02BMMM-PR8N 10 *
	Shielded	UL20233, PUR Jacket	MSLS-02BMMM-SR8H 10 *	MSLS-02BMMM-PR8H 10 *
		UL20549, High Flex / Bending PUR	MSLS-02BMMM-SR8N 10 *	MSLS-02BMMM-PR8N 10 *
	Stainless	UL20233, PUR Jacket	SM12L-02BMMM-SR8H 10 *	SM12L-02BMMM-PR8H 10 *
		UL20549, High Flex / Bending PUR	SM12L-02BMMM-SR8N 10 *	SM12L-02BMMM-PR8N 10 *
	Stainless	UL20233, PUR Jacket	SMSLS-02BMMM-SR8H 10 *	SMSLS-02BMMM-PR8H 10 *
	Shielded	UL20549, High Flex / Bending PUR	SMSLS-02BMMM-SR8N 10 *	SMSLS-02BMMM-PR8N 10 *

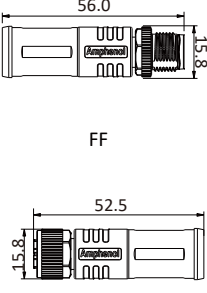
* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

Number of Contacts	2	2
Coding	L	T
Rated Voltage (AC/DC)	63V	63V
Nominal current	16A	12A
Pin Assignment	FF	MM
MM : Male Connector Male Contact FF : Female Connector Female Contact ME : Male Connector Male PWD + Female GND FD : Female Connector Female PWD + Male GND		

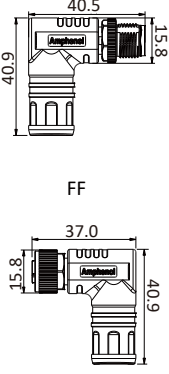
STRAIGHT, Overmolded Cable Assembly, Free Cable End

⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

 MM: 56.0, 15.8 FF: 52.5, 15.8	All Plastic	UL20233, PUR Jacket	MSLP-02BFFM-SL8H ⑩*	MSTP-02BMMM-SL8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSLP-02BFFM-SL8N ⑩*	MSTP-02BMMM-SL8N ⑩*
	Metal Nut	UL20233, PUR Jacket	M12L-02BFFM-SL8H ⑩*	M12T-02BMMM-SL8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12L-02BFFM-SL8N ⑩*	M12T-02BMMM-SL8N ⑩*
	Shielded	UL20233, PUR Jacket	MSLS-02BFFM-SL8H ⑩*	MSTS-02BMMM-SL8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSLS-02BFFM-SL8N ⑩*	MSTS-02BMMM-SL8N ⑩*
	Stainless	UL20233, PUR Jacket	SM12L-02BFFM-SL8H ⑩*	SM12T-02BMMM-SL8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12L-02BFFM-SL8N ⑩*	SM12T-02BMMM-SL8N ⑩*
Stainless Shielded		UL20233, PUR Jacket	SMSLS-02BFFM-SL8H ⑩*	SMSTS-02BMMM-SL8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSLS-02BFFM-SL8N ⑩*	SMSTS-02BMMM-SL8N ⑩*

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

 MM: 40.5, 15.8, 40.9 FF: 37.0, 15.8, 40.9	All Plastic	UL20233, PUR Jacket	MSLP-02BFFM-SR8H ⑩*	MSTP-02BMMM-SR8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSLP-02BFFM-SR8N ⑩*	MSTP-02BMMM-SR8N ⑩*
	Metal Nut	UL20233, PUR Jacket	M12L-02BFFM-SR8H ⑩*	M12T-02BMMM-SR8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12L-02BFFM-SR8N ⑩*	M12T-02BMMM-SR8N ⑩*
	Shielded	UL20233, PUR Jacket	MSLS-02BFFM-SR8H ⑩*	MSTS-02BMMM-SR8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSLS-02BFFM-SR8N ⑩*	MSTS-02BMMM-SR8N ⑩*
	Stainless	UL20233, PUR Jacket	SM12L-02BFFM-SR8H ⑩*	SM12T-02BMMM-SR8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12L-02BFFM-SR8N ⑩*	SM12T-02BMMM-SR8N ⑩*
Stainless Shielded		UL20233, PUR Jacket	SMSLS-02BFFM-SR8H ⑩*	SMSTS-02BMMM-SR8H ⑩*
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSLS-02BFFM-SR8N ⑩*	SMSTS-02BMMM-SR8N ⑩*

* Upon Request

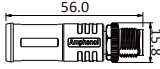
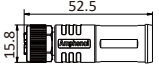
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

2		3 (2+PE)		
T		K		
63V		630V		
12A		16A		
MPronto-12 (M/M)	FF	Male Power / Female Ground	MPronto-12 (M/M)	Female Power / Male Ground
				
-	MSTP-02BFFM-SL8H ¹⁰ *	-	-	-
-	-	MSKP-03B MEM -SL8S ¹⁰ *	-	MSKP-03B FDM -SL8S ¹⁰ *
-	MSTP-02BFFM-SL8N ¹⁰ *	MSKP-03B MEM -SL8N ¹⁰ *	-	MSKP-03B FDM -SL8N ¹⁰ *
M12T-02B MMM -PL8H ¹⁰ *	M12T-02BFFM-SL8H ¹⁰ *	-	-	-
-	-	M12K-03B MEM -SL8S ¹⁰ *	M12K-03B MEM -PL8S ¹⁰ *	M12K-03B FDM -SL8S ¹⁰ *
M12T-02B MMM -PL8N ¹⁰ *	M12T-02BFFM-SL8N ¹⁰ *	M12K-03B MEM -SL8N ¹⁰ *	M12K-03B MEM -PL8N ¹⁰ *	M12K-03B FDM -SL8N ¹⁰ *
MSTS-02B MMM -PL8H ¹⁰ *	MSTS-02BFFM-SL8H ¹⁰ *	-	-	-
-	-	MSKS-03B MEM -SL8S ¹⁰ *	MSKS-03B MEM -PL8S ¹⁰ *	MSKS-03B FDM -SL8S ¹⁰ *
MSTS-02B MMM -PL8N ¹⁰ *	MSTS-02BFFM-SL8N ¹⁰ *	MSKS-03B MEM -SL8N ¹⁰ *	MSKS-03B MEM -PL8N ¹⁰ *	MSKS-03B FDM -SL8N ¹⁰ *
SM12T-02B MMM -PL8H ¹⁰ *	SM12T-02BFFM-SL8H ¹⁰ *	-	-	-
-	-	SM12K-03B MEM -SL8S ¹⁰ *	SM12K-03B MEM -PL8S ¹⁰ *	SM12K-03B FDM -SL8S ¹⁰ *
SM12T-02B MMM -PL8N ¹⁰ *	SM12T-02BFFM-SL8N ¹⁰ *	SM12K-03B MEM -SL8N ¹⁰ *	SM12K-03B MEM -PL8N ¹⁰ *	SM12K-03B FDM -SL8N ¹⁰ *
SMSTS-02B MMM -PL8H ¹⁰ *	SMSTS-02BFFM-SL8H ¹⁰ *	-	-	-
-	-	SMSKS-03B MEM -SL8S ¹⁰ *	SMSKS-03B MEM -PL8S ¹⁰ *	SMSKS-03B FDM -SL8S ¹⁰ *
SMSTS-02B MMM -PL8N ¹⁰ *	SMSTS-02BFFM-SL8N ¹⁰ *	SMSKS-03B MEM -SL8N ¹⁰ *	SMSKS-03B MEM -PL8N ¹⁰ *	SMSKS-03B FDM -SL8N ¹⁰ *
-	MSTP-02BFFM-SR8H ¹⁰ *	-	-	-
-	-	MSKP-03B MEM -SR8S ¹⁰ *	-	MSKP-03B FDM -SR8S ¹⁰ *
-	MSTP-02BFFM-SR8N ¹⁰ *	MSKP-03B MEM -SR8N ¹⁰ *	-	MSKP-03B FDM -SR8N ¹⁰ *
M12T-02B MMM -PR8H ¹⁰ *	M12T-02BFFM-SR8H ¹⁰ *	-	-	-
-	-	M12K-03B MEM -SR8S ¹⁰ *	M12K-03B MEM -PR8S ¹⁰ *	M12K-03B FDM -SR8S ¹⁰ *
M12T-02B MMM -PR8N ¹⁰ *	M12T-02BFFM-SR8N ¹⁰ *	M12K-03B MEM -SR8N ¹⁰ *	M12K-03B MEM -PR8N ¹⁰ *	M12K-03B FDM -SR8N ¹⁰ *
MSTS-02B MMM -PR8H ¹⁰ *	MSTS-02BFFM-SR8H ¹⁰ *	-	-	-
-	-	MSKS-03B MEM -SR8S ¹⁰ *	MSKS-03B MEM -PR8S ¹⁰ *	MSKS-03B FDM -SR8S ¹⁰ *
MSTS-02B MMM -PR8N ¹⁰ *	MSTS-02BFFM-SR8N ¹⁰ *	MSKS-03B MEM -SR8N ¹⁰ *	MSKS-03B MEM -PR8N ¹⁰ *	MSKS-03B FDM -SR8N ¹⁰ *
SM12T-02B MMM -PR8H ¹⁰ *	SM12T-02BFFM-SR8H ¹⁰ *	-	-	-
-	-	SM12K-03B MEM -SR8S ¹⁰ *	SM12K-03B MEM -PR8S ¹⁰ *	SM12K-03B FDM -SR8S ¹⁰ *
SM12T-02B MMM -PR8N ¹⁰ *	SM12T-02BFFM-SR8N ¹⁰ *	SM12K-03B MEM -SR8N ¹⁰ *	SM12K-03B MEM -PR8N ¹⁰ *	SM12K-03B FDM -SR8N ¹⁰ *
SMSTS-02B MMM -PR8H ¹⁰ *	SMSTS-02BFFM-SR8H ¹⁰ *	-	-	-
-	-	SMSKS-03B MEM -SR8S ¹⁰ *	SMSKS-03B MEM -PR8S ¹⁰ *	SMSKS-03B FDM -SR8S ¹⁰ *
SMSTS-02B MMM -PR8N ¹⁰ *	SMSTS-02BFFM-SR8N ¹⁰ *	SMSKS-03B MEM -SR8N ¹⁰ *	SMSKS-03B MEM -PR8N ¹⁰ *	SMSKS-03B FDM -SR8N ¹⁰ *

Number of Contacts	3 (2+PE)	
Coding	M	
Rated Voltage (AC/DC)	630V	
Nominal current	8A	
Pin Assignment	ME	MPronto-12 (M/M)
MM : Male Connector Male Contact FF : Female Connector Female Contact ME : Male Connector Male PWD + Female GND FD : Female Connector Female PWD + Male GND		

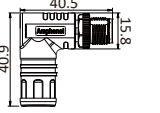
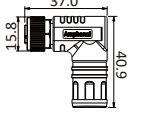
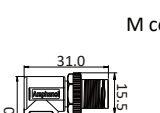
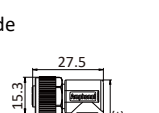
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

MM  FF  L code  M code 	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMP-03B MEM -SL8S 10 *	-
		UL20549, High Flex / Bending PUR	MSMP-03B MEM -SL8N 10 *	-
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M-03B MEM -SL8S 10 *	M12M-03B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	M12M-03B MEM -SL8N 10 *	M12M-03B MEM -PL8N 10 *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMS-03B MEM -SL8S 10 *	MSMS-03B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	MSMS-03B MEM -SL8N 10 *	MSMS-03B MEM -PL8N 10 *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12M-03B MEM -SL8S 10 *	SM12M-03B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	SM12M-03B MEM -SL8N 10 *	SM12M-03B MEM -PL8N 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSMS-03B MEM -SL8S 10 *	SMSMS-03B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	SMSMS-03B MEM -SL8N 10 *	SMSMS-03B MEM -PL8N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

MM  FF  L code  M code 	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMP-03B MEM -SR8S 10 *	-
		UL20549, High Flex / Bending PUR	MSMP-03B MEM -SR8N 10 *	-
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M-03B MEM -SR8S 10 *	M12M-03B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	M12M-03B MEM -SR8N 10 *	M12M-03B MEM -PR8N 10 *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMS-03B MEM -SR8S 10 *	MSMS-03B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	MSMS-03B MEM -SR8N 10 *	MSMS-03B MEM -PR8N 10 *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12M-03B MEM -SR8S 10 *	SM12M-03B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	SM12M-03B MEM -SR8N 10 *	SM12M-03B MEM -PR8N 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSMS-03B MEM -SR8S 10 *	SMSMS-03B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	SMSMS-03B MEM -SR8N 10 *	SMSMS-03B MEM -PR8N 10 *

* Upon Request

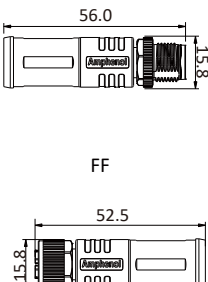
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3 (2+PE)	3			3 (2+FE)
M	L			L
630V	63V			63V
8A	12A			16A
FD	MM	MPronto-12 (M/M)	FF	Male Power / Female Ground
				
-	MSLP-03BMMM-SL8H ¹⁰ *	-	MSLP-03BFFM-SL8H ¹⁰ *	MSLP-03BMEM-SL8H ¹⁰ *
MSMP-03BFDM-SL8S ¹⁰ *	-	-	-	-
MSMP-03BFDM-SL8N ¹⁰ *	MSLP-03BMMM-SL8N ¹⁰ *	-	MSLP-03BFM-SL8N ¹⁰ *	MSLP-03BMEM-SL8N ¹⁰ *
-	M12L-03BMMM-SL8H ¹⁰ *	M12L-03BMMM-PL8H ¹⁰ *	M12L-03BFFM-SL8H ¹⁰ *	M12L-03BMEM-SL8H ¹⁰ *
M12M-03BFDM-SL8S ¹⁰ *	-	-	-	-
M12M-03BFDM-SL8N ¹⁰ *	M12L-03BMMM-SL8N ¹⁰ *	M12L-03BMMM-PL8N ¹⁰ *	M12L-03BFFM-SL8N ¹⁰ *	M12L-03BMEM-SL8N ¹⁰ *
-	MSLS-03BMMM-SL8H ¹⁰ *	MSLS-03BMMM-PL8H ¹⁰ *	MSLS-03BFFM-SL8H ¹⁰ *	MSLS-03BMEM-SL8H ¹⁰ *
MSMS-03BFDM-SL8S ¹⁰ *	-	-	-	-
MSMS-03BFDM-SL8N ¹⁰ *	MSLS-03BMMM-SL8N ¹⁰ *	MSLS-03BMMM-PL8N ¹⁰ *	MSLS-03BFFM-SL8N ¹⁰ *	MSLS-03BMEM-SL8N ¹⁰ *
-	SM12L-03BMMM-SL8H ¹⁰ *	SM12L-03BMMM-PL8H ¹⁰ *	SM12L-03BFFM-SL8H ¹⁰ *	SM12L-03BMEM-SL8H ¹⁰ *
SM12M-03BFDM-SL8S ¹⁰ *	-	-	-	-
SM12M-03BFDM-SL8N ¹⁰ *	SM12L-03BMMM-SL8N ¹⁰ *	SM12L-03BMMM-PL8N ¹⁰ *	SM12L-03BFFM-SL8N ¹⁰ *	SM12L-03BMEM-SL8N ¹⁰ *
-	SMSLS-03BMMM-SL8H ¹⁰ *	SMSLS-03BMMM-PL8H ¹⁰ *	SMSLS-03BFFM-SL8H ¹⁰ *	SMSLS-03BMEM-SL8H ¹⁰ *
SMSMS-03BFDM-SL8S ¹⁰ *	-	-	-	-
SMSMS-03BFDM-SL8N ¹⁰ *	SMSLS-03BMMM-SL8N ¹⁰ *	SMSLS-03BMMM-PL8N ¹⁰ *	SMSLS-03BFFM-SL8N ¹⁰ *	SMSLS-03BMEM-SL8N ¹⁰ *
-	MSLP-03BMMM-SR8H ¹⁰ *	-	MSLP-03BFFM-SR8H ¹⁰ *	MSLP-03BMEM-SR8H ¹⁰ *
MSMP-03BFDM-SR8S ¹⁰ *	-	-	-	-
MSMP-03BFDM-SR8N ¹⁰ *	MSLP-03BMMM-SR8N ¹⁰ *	-	MSLP-03BFFM-SR8N ¹⁰ *	MSLP-03BMEM-SR8N ¹⁰ *
-	M12L-03BMMM-SR8H ¹⁰ *	M12L-03BMMM-PR8H ¹⁰ *	M12L-03BFFM-SR8H ¹⁰ *	M12L-03BMEM-SR8H ¹⁰ *
M12M-03BFDM-SR8S ¹⁰ *	-	-	-	-
M12M-03BFDM-SR8N ¹⁰ *	M12L-03BMMM-SR8N ¹⁰ *	M12L-03BMMM-PR8N ¹⁰ *	M12L-03BFFM-SR8N ¹⁰ *	M12L-03BMEM-SR8N ¹⁰ *
-	MSLS-03BMMM-SR8H ¹⁰ *	MSLS-03BMMM-PR8H ¹⁰ *	MSLS-03BFFM-SR8H ¹⁰ *	MSLS-03BMEM-SR8H ¹⁰ *
MSMS-03BFDM-SR8S ¹⁰ *	-	-	-	-
MSMS-03BFDM-SR8N ¹⁰ *	MSLS-03BMMM-SR8N ¹⁰ *	MSLS-03BMMM-PR8N ¹⁰ *	MSLS-03BFFM-SR8N ¹⁰ *	MSLS-03BMEM-SR8N ¹⁰ *
-	SM12L-03BMMM-SR8H ¹⁰ *	SM12L-03BMMM-PR8H ¹⁰ *	SM12L-03BFFM-SR8H ¹⁰ *	SM12L-03BMEM-SR8H ¹⁰ *
SM12M-03BFDM-SR8S ¹⁰ *	-	-	-	-
SM12M-03BFDM-SR8N ¹⁰ *	SM12L-03BMMM-SR8N ¹⁰ *	SM12L-03BMMM-PR8N ¹⁰ *	SM12L-03BFFM-SR8N ¹⁰ *	SM12L-03BMEM-SR8N ¹⁰ *
-	SMSLS-03BMMM-SR8H ¹⁰ *	SMSLS-03BMMM-PR8H ¹⁰ *	SMSLS-03BFFM-SR8H ¹⁰ *	SMSLS-03BMEM-SR8H ¹⁰ *
SMSMS-03BFDM-SR8S ¹⁰ *	-	-	-	-
SMSMS-03BFDM-SR8N ¹⁰ *	SMSLS-03BMMM-SR8N ¹⁰ *	SMSLS-03BMMM-PR8N *	SMSLS-03BFFM-SR8N ¹⁰ *	SMSLS-03BMEM-SR8N ¹⁰ *

Number of Contacts	3 (2+FE)	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	16A	
Pin Assignment	MPronto-12 (M/M)	Female Power/Male Ground
MM: Male Connector Male Contact FF: Female Connector Female Contact ME: Male Connector Male PWD + Female GND FD: Female Connector Female PWD + Male GND		

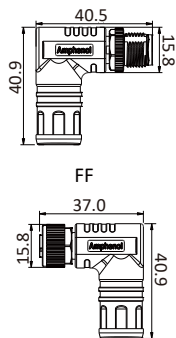
STRAIGHT, Overmolded Cable Assembly, Free Cable End

⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	MSLP-03BFDM-SL8H ⑩ *
		UL20549, High Flex / Bending PUR	-	MSLP-03BFDM-SL8N ⑩ *
	Metal Nut	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	M12L-03BMEM-PL8H ⑩ *	M12L-03BFDM-SL8H ⑩ *
		UL20234, PUR Jacket	-	-
	Shielded	UL20549, High Flex / Bending PUR	M12L-03BMEM-PL8N ⑩ *	M12L-03BFDM-SL8N ⑩ *
		UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLS-03BMEM-PL8H ⑩ *	MSLS-03BFDM-SL8H ⑩ *
	Stainless	UL20549, High Flex / Bending PUR	MSLS-03BMEM-PL8N ⑩ *	MSLS-03BFDM-SL8N ⑩ *
		UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SM12L-03BMEM-PL8H ⑩ *	SM12L-03BFDM-SL8H ⑩ *
Stainless Shielded	Stainless	UL20549, High Flex / Bending PUR	SM12L-03BMEM-PL8N ⑩ *	SM12L-03BFDM-SL8N ⑩ *
		UL2586, PVC Jacket	-	-
	Stainless Shielded	UL20233, PUR Jacket	SMSLS-03BMEM-PL8H ⑩ *	SMSLS-03BFDM-SL8H ⑩ *
		UL20549, High Flex / Bending PUR	SMSLS-03BMEM-PL8N ⑩ *	SMSLS-03BFDM-SL8N ⑩ *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

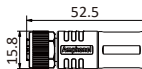
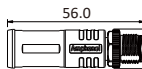
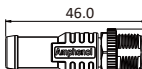
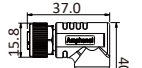
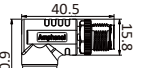
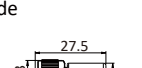
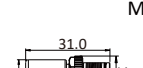
⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	MSLP-03BFDM-SR8H ⑩ *
		UL20549, High Flex / Bending PUR	-	MSLP-03BFDM-SR8N ⑩ *
	Metal Nut	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	M12L-03BMEM-PR8H ⑩ *	M12L-03BFDM-SR8H ⑩ *
		UL20549, High Flex / Bending PUR	M12L-03BMEM-PR8N ⑩ *	M12L-03BFDM-SR8N ⑩ *
	Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLS-03BMEM-PR8H ⑩ *	MSLS-03BFDM-SR8H ⑩ *
		UL20549, High Flex / Bending PUR	MSLS-03BMEM-PR8N ⑩ *	MSLS-03BFDM-SR8N ⑩ *
	Stainless	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SM12L-03BMEM-PR8H ⑩ *	SM12L-03BFDM-SR8H ⑩ *
		UL20549, High Flex / Bending PUR	SM12L-03BMEM-PR8N ⑩ *	SM12L-03BFDM-SR8N ⑩ *
Stainless Shielded	Stainless	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SMSLS-03BMEM-PR8H ⑩ *	SMSLS-03BFDM-SR8H ⑩ *
	Stainless Shielded	UL20549, High Flex / Bending PUR	SMSLS-03BMEM-PR8N ⑩ *	SMSLS-03BFDM-SR8N ⑩ *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3 (2+PE)			3	
S			T	
630V			63V	
12A			12A	
MM	MPronto-12 (M/M)	FF	MM	MPronto-12 (M/M)
				
MSSP-03BMMM-SL8G ¹⁰ *	-	MSSP-03BFFM-SL8G ¹⁰ *	-	-
-	-	-	MSTP-03BMMM-SL8H ¹⁰ *	-
MSSP-03BMMM-SL8N ¹⁰ *	-	MSSP-03BFFM-SL8N ¹⁰ *	MSTP-03BMMM-SL8N ¹⁰ *	-
M12S-03BMMM-SL8G ¹⁰ *	M12S-03BMMM-PL8G ¹⁰ *	M12S-03BFFM-SL8G ¹⁰ *	-	-
-	-	-	M12T-03BMMM-SL8H ¹⁰ *	M12T-03BMMM-PL8H ¹⁰ *
M12S-03BMMM-SL8S ¹⁰	-	-	-	-
M12S-03BMMM-SL8N ¹⁰ *	M12S-03BMMM-PL8N ¹⁰ *	M12S-03BFFM-SL8N ¹⁰ *	M12T-03BMMM-SL8N ¹⁰ *	M12T-03BMMM-PL8N ¹⁰ *
-	MSSS-03BMMM-PL8G ¹⁰ *	MSSS-03BFFM-SL8G ¹⁰ *	-	-
-	-	-	MSTS-03BMMM-SL8H ¹⁰ *	MSTS-03BMMM-PL8H ¹⁰ *
MSSS-03BMMM-SL8N ¹⁰ *	MSSS-03BMMM-PL8N ¹⁰ *	MSSS-03BFFM-SL8N ¹⁰ *	MSTS-03BMMM-SL8N ¹⁰ *	MSTS-03BMMM-PL8N ¹⁰ *
-	SM12S-03BMMM-PL8G ¹⁰ *	SM12S-03BFFM-SL8G ¹⁰ *	-	-
-	-	-	SM12T-03BMMM-SL8H ¹⁰ *	SM12T-03BMMM-PL8H ¹⁰ *
SM12S-03BMMM-SL8N ¹⁰ *	SM12S-03BMMM-PL8N ¹⁰ *	SM12S-03BFFM-SL8N ¹⁰ *	SM12T-03BMMM-SL8N ¹⁰ *	SM12T-03BMMM-PL8N ¹⁰ *
-	SMSSS-03BMMM-PL8G ¹⁰ *	SMSSS-03BFFM-SL8G ¹⁰ *	-	-
-	-	-	SMSTS-03BMMM-SL8H ¹⁰ *	SMSTS-03BMMM-PL8H ¹⁰ *
SMSSS-03BMMM-SL8N ¹⁰ *	SMSSS-03BMMM-PL8N ¹⁰ *	SMSSS-03BFFM-SL8N ¹⁰ *	SMSTS-03BMMM-SL8N ¹⁰ *	SMSTS-03BMMM-PL8N ¹⁰ *
MSSP-03BMMM-SR8G ¹⁰ *	-	MSSP-03BFFM-SR8G ¹⁰ *	-	-
-	-	-	MSTP-03BMMM-SR8H ¹⁰ *	-
MSSP-03BMMM-SR8N ¹⁰ *	-	MSSP-03BFFM-SR8N ¹⁰ *	MSTP-03BMMM-SR8N ¹⁰ *	-
M12S-03BMMM-SR8G ¹⁰ *	M12S-03BMMM-PR8G ¹⁰ *	M12S-03BFFM-SR8G ¹⁰ *	-	-
-	-	-	M12T-03BMMM-SR8H ¹⁰ *	M12T-03BMMM-PR8H ¹⁰ *
M12S-03BMMM-SR8N ¹⁰ *	M12S-03BMMM-PR8N ¹⁰ *	M12S-03BFFM-SR8N ¹⁰ *	M12T-03BMMM-SR8N ¹⁰ *	M12T-03BMMM-PR8N ¹⁰ *
MSSS-03BMMM-SR8G ¹⁰ *	MSSS-03BMMM-PR8G ¹⁰ *	MSSS-03BFFM-SR8G ¹⁰ *	-	-
-	-	-	MSTS-03BMMM-SR8H ¹⁰ *	MSTS-03BMMM-PR8H ¹⁰ *
MSSS-03BMMM-SR8N ¹⁰ *	MSSS-03BMMM-PR8N ¹⁰ *	MSSS-03BFFM-SR8N ¹⁰ *	MSTS-03BMMM-SR8N ¹⁰ *	MSTS-03BMMM-PR8N ¹⁰ *
SM12S-03BMMM-SR8G ¹⁰ *	SM12S-03BMMM-PR8G ¹⁰ *	SM12S-03BFFM-SR8G ¹⁰ *	-	-
-	-	-	SM12T-03BMMM-SR8H ¹⁰ *	SM12T-03BMMM-PR8H ¹⁰ *
SM12S-03BMMM-SR8N ¹⁰ *	SM12S-03BMMM-PR8N ¹⁰ *	SM12S-03BFFM-SR8N ¹⁰ *	SM12T-03BMMM-SR8N ¹⁰ *	SM12T-03BMMM-PR8N ¹⁰ *
SMSSS-03BMMM-SR8G ¹⁰ *	SMSSS-03BMMM-PR8G ¹⁰ *	SMSSS-03BFFM-SR8G ¹⁰ *	-	-
-	-	-	SMSTS-03BMMM-SR8H ¹⁰ *	SMSTS-03BMMM-PR8H ¹⁰ *
SMSSS-03BMMM-SR8N ¹⁰ *	SMSSS-03BMMM-PR8N ¹⁰ *	SMSSS-03BFFM-SR8N ¹⁰ *	SMSTS-03BMMM-SR8N ¹⁰ *	SMSTS-03BMMM-PR8N ¹⁰ *

Number of Contacts		3		4 (3+PE)	
Coding		T		K	
Rated Voltage (AC/DC)		63V		630V	
Nominal current		12A		16A	
Pin Assignment		FF		ME	
MM : Male Connector Male Contact FF : Female Connector Female Contact ME : Male Connector Male PWD + Female GND FD : Female Connector Female PWD + Male GND					
STRAIGHT, Overmolded Cable Assembly, Free Cable End					
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾					
MM FF K, T code  M code 	All Plastic Metal Nut Shielded Stainless Stainless Shielded	UL20233, PUR Jacket	MSTP-03BFFM-SL8H ⑩ *	-	
		UL20234, PUR Jacket	-	MSKP-04B MEM -SL8S ⑩ *	
		UL20549, High Flex / Bending PUR	MSTP-03BFFM-SL8N ⑩ *	MSKP-04B MEM -SL8N ⑩ *	
		UL20233, PUR Jacket	M12T-03BFFM-SL8H ⑩ *	-	
		UL20234, PUR Jacket	-	M12K-04B MEM -SL8S ⑩ *	
		UL20549, High Flex / Bending PUR	M12T-03BFFM-SL8N ⑩ *	M12K-04B MEM -SL8N ⑩ *	
		UL20233, PUR Jacket	MSTS-03BFFM-SL8H ⑩ *	-	
		UL20234, PUR Jacket	-	-	
		UL20549, High Flex / Bending PUR	MSTS-03BFFM-SL8N ⑩ *	MSKS-04B MEM -SL8N ⑩ *	
		UL20233, PUR Jacket	SM12T-03BFFM-SL8H ⑩ *	-	
		UL20234, PUR Jacket	-	SM12K-04B MEM -SL8S ⑩ *	
		UL20549, High Flex / Bending PUR	SM12T-03BFFM-SL8N ⑩ *	SM12K-04B MEM -SL8N ⑩ *	
UL20233, PUR Jacket	SMSTS-03BFFM-SL8H ⑩ *	-			
UL20234, PUR Jacket	-	SMSKS-04B MEM -SL8S ⑩ *			
UL20549, High Flex / Bending PUR	SMSTS-03BFFM-SL8N ⑩ *	SMSKS-04B MEM -SL8N ⑩ *			
RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End					
⑩ Cable Length: (01) 1M ~ (99) 99M ¹⁾					
MM FF K, T code  M code 	All Plastic Metal Nut Shielded Stainless Stainless Shielded	UL20233, PUR Jacket	MSTP-03BFFM-SR8H ⑩ *	-	
		UL20234, PUR Jacket	-	MSKP-04B MEM -SR8S ⑩ *	
		UL20549, High Flex / Bending PUR	MSTP-03BFFM-SR8N ⑩ *	MSKP-04B MEM -SR8N ⑩ *	
		UL20233, PUR Jacket	M12T-03BFFM-SR8H ⑩ *	-	
		UL20234, PUR Jacket	-	M12K-04B MEM -SR8S ⑩ *	
		UL20549, High Flex / Bending PUR	M12T-03BFFM-SR8N ⑩ *	M12K-04B MEM -SR8N ⑩ *	
		UL20233, PUR Jacket	MSTS-03BFFM-SR8H ⑩ *	-	
		UL20234, PUR Jacket	-	MSKS-04B MEM -SR8S ⑩ *	
		UL20549, High Flex / Bending PUR	MSTS-03BFFM-SR8N ⑩ *	MSKS-04B MEM -SR8N ⑩ *	
		UL20233, PUR Jacket	SM12T-03BFFM-SR8H ⑩ *	-	
		UL20234, PUR Jacket	-	SM12K-04B MEM -SR8S ⑩ *	
		UL20549, High Flex / Bending PUR	SM12T-03BFFM-SR8N ⑩ *	SM12K-04B MEM -SR8N ⑩ *	
UL20233, PUR Jacket	SMSTS-03BFFM-SR8H ⑩ *	-			
UL20234, PUR Jacket	-	SMSKS-04B MEM -SR8S ⑩ *			
UL20549, High Flex / Bending PUR	SMSTS-03BFFM-SR8N ⑩ *	SMSKS-04B MEM -SR8N ⑩ *			

* Upon Request

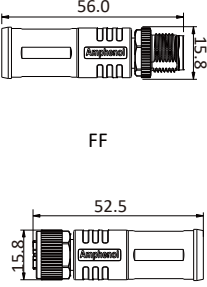
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4 (3+PE)		4 (3+PE)		
K		M		
630V		630V		
16A		8A		
MPronto-12 (M/M)	FD	ME	MPronto-12 (M/M)	FD
				
-	-	-	-	-
-	MSKP-04BFD M-SL8S 	MSMP-04BMEM-SL8S 	-	MSMP-04BFD M-SL8S 
-	MSKP-04BFD M-SL8N 	MSMP-04BMEM-SL8N 	-	MSMP-04BFD M-SL8N 
-	-	-	-	-
M12K-04BMEM-PL8S 	M12K-04BFD M-SL8S 	M12M-04BMEM-SL8S 	M12M-04BMEM-PL8S 	M12M-04BFD M-SL8S 
M12K-04BMEM-PL8N 	M12K-04BFD M-SL8N 	M12M-04BMEM-SL8N 	M12M-04BMEM-PL8N 	M12M-04BFD M-SL8N 
-	-	-	-	-
-	-	MSMS-04BMEM-SL8S 	MSMS-04BMEM-PL8S 	MSMS-04BFD M-SL8S 
MSKS-04BMEM-PL8N 	MSKS-04BFD M-SL8N 	MSMS-04BMEM-SL8N 	MSMS-04BMEM-PL8N 	MSMS-04BFD M-SL8N 
-	-	-	-	-
SM12K-04BMEM-PL8S 	SM12K-04BFD M-SL8S 	SM12M-04BMEM-SL8S 	SM12M-04BMEM-PL8S 	SM12M-04BFD M-SL8S 
SM12K-04BMEM-PL8N 	SM12K-04BFD M-SL8N 	SM12M-04BMEM-SL8N 	SM12M-04BMEM-PL8N 	SM12M-04BFD M-SL8N 
-	-	-	-	-
SMSKS-04BMEM-PL8S 	SMSKS-04BFD M-SL8S 	SMSMS-04BMEM-SL8S 	SMSMS-04BMEM-PL8S 	SMSMS-04BFD M-SL8S 
SMSKS-04BMEM-PL8N 	SMSKS-04BFD M-SL8N 	SMSMS-04BMEM-SL8N 	SMSMS-04BMEM-PL8N 	SMSMS-04BFD M-SL8N 
-	-	-	-	-
-	MSKP-04BFD M-SR8S 	MSMP-04BMEM-SR8S 	-	MSMP-04BFD M-SR8S 
-	MSKP-04BFD M-SR8N 	MSMP-04BMEM-SR8N 	-	MSMP-04BFD M-SR8N 
-	-	-	-	-
M12K-04BMEM-PR8S 	M12K-04BFD M-SR8S 	M12M-04BMEM-SR8S 	M12M-04BMEM-PR8S 	M12M-04BFD M-SR8S 
M12K-04BMEM-PR8N 	M12K-04BFD M-SR8N 	M12M-04BMEM-SR8N 	M12M-04BMEM-PR8N 	M12M-04BFD M-SR8N 
-	-	-	-	-
MSKS-04BMEM-PR8S 	MSKS-04BFD M-SR8S 	MSMS-04BMEM-SR8S 	MSMS-04BMEM-PR8S 	MSMS-04BFD M-SR8S 
MSKS-04BMEM-PR8N 	MSKS-04BFD M-SR8N 	MSMS-04BMEM-SR8N 	MSMS-04BMEM-PR8N 	MSMS-04BFD M-SR8N 
-	-	-	-	-
SM12K-04BMEM-PR8S 	SM12K-04BFD M-SR8S 	SM12M-04BMEM-SR8S 	SM12M-04BMEM-PR8S 	SM12M-04BFD M-SR8S 
SM12K-04BMEM-PR8N 	SM12K-04BFD M-SR8N 	SM12M-04BMEM-SR8N 	SM12M-04BMEM-PR8N 	SM12M-04BFD M-SR8N 
-	-	-	-	-
SMSKS-04BMEM-PR8S 	SMSKS-04BFD M-SR8S 	SMSMS-04BMEM-SR8S 	SMSMS-04BMEM-PR8S 	SMSMS-04BFD M-SR8S 
SMSKS-04BMEM-PR8N 	SMSKS-04BFD M-SR8N 	SMSMS-04BMEM-SR8N 	SMSMS-04BMEM-PR8N 	SMSMS-04BFD M-SR8N 

Number of Contacts	4	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	16A	
Pin Assignment	MM	MPronto-12 (M/M)
MM: Male Connector Male Contact FF: Female Connector Female Contact ME: Male Connector Male PWD + Female GND FD: Female Connector Female PWD + Male GND		

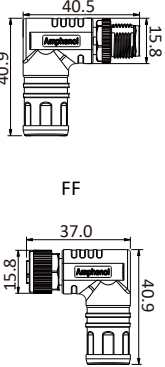
STRAIGHT, Overmolded Cable Assembly, Free Cable End

¹⁾ Cable Length: (01) 1M ~ (99) 99M

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLP-04BMMM-SL8H ¹⁰ *	-
		UL20549, High Flex / Bending PUR	MSLP-04BMMM-SL8N ¹⁰ *	-
	Metal Nut	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	M12L-04BMMM-SL8H ¹⁰ *	M12L-04BMMM-PL8H ¹⁰ *
		UL20549, High Flex / Bending PUR	M12L-04BMMM-SL8N ¹⁰ *	M12L-04BMMM-PL8N ¹⁰ *
	Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLS-04BMMM-SL8H ¹⁰ *	MSLS-04BMMM-PL8H ¹⁰ *
		UL20549, High Flex / Bending PUR	MSLS-04BMMM-SL8N ¹⁰ *	MSLS-04BMMM-PL8N ¹⁰ *
	Stainless	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SM12L-04BMMM-SL8H ¹⁰ *	SM12L-04BMMM-PL8H ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12L-04BMMM-SL8N ¹⁰ *	SM12L-04BMMM-PL8N ¹⁰ *
	Stainless Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SMSLS-04BMMM-SL8H ¹⁰ *	SMSLS-04BMMM-PL8H ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSLS-04BMMM-SL8N ¹⁰ *	SMSLS-04BMMM-PL8N ¹⁰ *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

¹⁾ Cable Length: (01) 1M ~ (99) 99M

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLP-04BMMM-SR8H ¹⁰ *	-
		UL20234, PUR Jacket	-	-
	Metal Nut	UL20549, High Flex / Bending PUR	MSLP-04BMMM-SR8N ¹⁰ *	-
		UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	M12L-04BMMM-SR8H ¹⁰ *	M12L-04BMMM-PR8H ¹⁰ *
	Shielded	UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12L-04BMMM-SR8N ¹⁰ *	M12L-04BMMM-PR8N ¹⁰ *
		UL2586, PVC Jacket	-	-
	Stainless	UL20233, PUR Jacket	MSLS-04BMMM-SR8H ¹⁰ *	MSLS-04BMMM-PR8H ¹⁰ *
		UL20549, High Flex / Bending PUR	MSLS-04BMMM-SR8N ¹⁰ *	MSLS-04BMMM-PR8N ¹⁰ *
		UL2586, PVC Jacket	-	-
	Stainless Shielded	UL20233, PUR Jacket	SM12L-04BMMM-SR8H ¹⁰ *	SM12L-04BMMM-PR8H ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12L-04BMMM-SR8N ¹⁰ *	SM12L-04BMMM-PR8N ¹⁰ *
		UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SMSLS-04BMMM-SR8H ¹⁰ *	SMSLS-04BMMM-PR8H ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSLS-04BMMM-SR8N ¹⁰ *	SMSLS-04BMMM-PR8N ¹⁰ *

* Upon Request

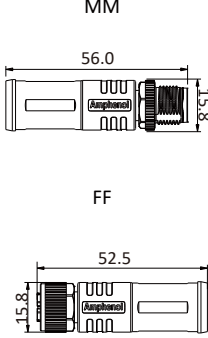
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4	4 (3+FE)			4 (3+PE)
L	L			S
63V	63V			630V
16A	16A			12A
FF	Male Power/Female Ground	MPronto-12 (M/M)	Female Power/Male Ground	MM
				
-	-	-	-	MSSP-04BMMM-SL8G ¹⁰
MSLP-04BFFM-SL8H ¹⁰ *	MSLP-04BMEM-SL8H ¹⁰ *	-	MSLP-04BFDM-SL8H ¹⁰ *	-
MSLP-04BFFM-SL8N ¹⁰ *	MSLP-04BMEM-SL8N ¹⁰ *	-	MSLP-04BFDM-SL8N ¹⁰ *	MSSP-04BMMM-SL8N ¹⁰ *
-	-	-	-	M12S-04BMMM-SL8G ¹⁰
M12L-04BFFM-SL8H ¹⁰ *	M12L-04BMEM-SL8H ¹⁰ *	M12L-04BMEM-PL8H ¹⁰ *	M12L-04BFDM-SL8H ¹⁰ *	-
M12L-04BFFM-SL8N ¹⁰ *	M12L-04BMEM-SL8N ¹⁰ *	M12L-04BMEM-PL8N ¹⁰ *	M12L-04BFDM-SL8N ¹⁰ *	M12S-04BMMM-SL8N ¹⁰ *
-	-	-	-	MSSS-04BMMM-SL8G ¹⁰ *
MSLS-04BFFM-SL8H ¹⁰ *	MSLS-04BMEM-SL8H ¹⁰ *	MSLS-04BMEM-PL8H ¹⁰ *	MSLS-04BFDM-SL8H ¹⁰ *	-
MSLS-04BFFM-SL8N ¹⁰ *	MSLS-04BMEM-SL8N ¹⁰ *	MSLS-04BMEM-PL8N ¹⁰ *	MSLS-04BFDM-SL8N ¹⁰ *	MSSS-04BMMM-SL8N ¹⁰ *
-	-	-	-	SM12S-04BMMM-SL8G ¹⁰ *
SM12L-04BFFM-SL8H ¹⁰ *	SM12L-04BMEM-SL8H ¹⁰ *	SM12L-04BMEM-PL8H ¹⁰ *	SM12L-04BFDM-SL8H ¹⁰ *	-
SM12L-04BFFM-SL8N ¹⁰ *	SM12L-04BMEM-SL8N ¹⁰ *	SM12L-04BMEM-PL8N ¹⁰ *	SM12L-04BFDM-SL8N ¹⁰ *	SM12S-04BMMM-SL8N ¹⁰ *
-	-	-	-	SMSSS-04BMMM-SL8G ¹⁰ *
SMSLS-04BFFM-SL8H ¹⁰ *	SMSLS-04BMEM-SL8H ¹⁰ *	SMSLS-04BMEM-PL8H ¹⁰ *	SMSLS-04BFDM-SL8H ¹⁰ *	-
SMSLS-04BFFM-SL8N ¹⁰ *	SMSLS-04BMEM-SL8N ¹⁰ *	SMSLS-04BMEM-PL8N ¹⁰ *	SMSLS-04BFDM-SL8N ¹⁰ *	SMSSS-04BMMM-SL8N ¹⁰ *
-	-	-	-	MSSP-04BMMM-SR8G ¹⁰
MSLP-04BFFM-SR8H ¹⁰ *	MSLP-04BMEM-SR8H ¹⁰ *	-	MSLP-04BFDM-SR8H ¹⁰ *	-
-	-	-	-	MSSP-04BMMM-SR8S ¹⁰
MSLP-04BFFM-SR8N ¹⁰ *	MSLP-04BMEM-SR8N ¹⁰ *	-	MSLP-04BFDM-SR8N ¹⁰ *	MSSP-04BMMM-SR8N ¹⁰ *
-	-	-	-	M12S-04BMMM-SR8G ¹⁰
M12L-04BFFM-SR8H ¹⁰ *	M12L-04BMEM-SR8H ¹⁰ *	M12L-04BMEM-PR8H ¹⁰ *	M12L-04BFDM-SR8H ¹⁰ *	-
-	-	-	-	M12S-04BMMM-SR8S ¹⁰
M12L-04BFFM-SR8N ¹⁰ *	M12L-04BMEM-SR8N ¹⁰ *	M12L-04BMEM-PR8N ¹⁰ *	M12L-04BFDM-SR8N ¹⁰ *	M12S-04BMMM-SR8N ¹⁰ *
-	-	-	-	MSSS-04BMMM-SR8G ¹⁰ *
MSLS-04BFFM-SR8H ¹⁰ *	MSLS-04BMEM-SR8H ¹⁰ *	MSLS-04BMEM-PR8H ¹⁰ *	MSLS-04BFDM-SR8H ¹⁰ *	-
MSLS-04BFFM-SR8N ¹⁰ *	MSLS-04BMEM-SR8N ¹⁰ *	MSLS-04BMEM-PR8N ¹⁰ *	MSLS-04BFDM-SR8N ¹⁰ *	MSSS-04BMMM-SR8N ¹⁰ *
-	-	-	-	SM12S-04BMMM-SR8G ¹⁰ *
SM12L-04BFFM-SR8H ¹⁰ *	SM12L-04BMEM-SR8H ¹⁰ *	SM12L-04BMEM-PR8H ¹⁰ *	SM12L-04BFDM-SR8H ¹⁰ *	-
SM12L-04BFFM-SR8N ¹⁰ *	SM12L-04BMEM-SR8N ¹⁰ *	SM12L-04BMEM-PR8N ¹⁰ *	SM12L-04BFDM-SR8N ¹⁰ *	SM12S-04BMMM-SR8N ¹⁰ *
-	-	-	-	SMSSS-04BMMM-SR8G ¹⁰ *
SMSLS-04BFFM-SR8H ¹⁰ *	SMSLS-04BMEM-SR8H ¹⁰ *	SMSLS-04BMEM-PR8H ¹⁰ *	SMSLS-04BFDM-SR8H ¹⁰ *	-
SMSLS-04BFFM-SR8N ¹⁰ *	SMSLS-04BMEM-SR8N ¹⁰ *	SMSLS-04BMEM-PR8N ¹⁰ *	SMSLS-04BFDM-SR8N ¹⁰ *	SMSSS-04BMMM-SR8N ¹⁰ *

Number of Contacts	4 (3+PE)	
Coding	S	
Rated Voltage (AC/DC)	630V	
Nominal current	12A	
Pin Assignment	MPronto-12 (M/M)	FF
MM : Male Connector Male Contact FF : Female Connector Female Contact ME : Male Connector Male PWD + Female GND		

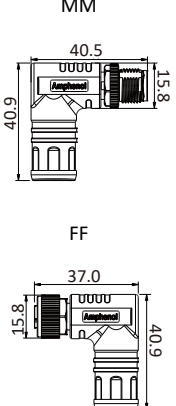
STRAIGHT, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2586, PVC Jacket	-	MSSP-04BFFM-SL8G 10
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	MSSP-04BFFM-SL8N 10 *
	Metal Nut	UL2586, PVC Jacket	M12S-04BMMM-PL8G 10 *	M12S-04BFFM-SL8G 10
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12S-04BMMM-PL8N 10 *	M12S-04BFFM-SL8N 10 *
	Shielded	UL2586, PVC Jacket	MSSS-04BMMM-PL8G 10 *	MSSS-04BFFM-SL8G 10 *
		UL20233, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSSS-04BMMM-PL8N 10 *	MSSS-04BFFM-SL8N 10 *
	Stainless	UL2586, PVC Jacket	SM12S-04BMMM-PL8G 10 *	SM12S-04BFFM-SL8G 10 *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12S-04BMMM-PL8N 10 *	SM12S-04BFFM-SL8N 10 *
	Stainless Shielded	UL2586, PVC Jacket	SMSSS-04BMMM-PL8G 10 *	SMSSS-04BFFM-SL8G 10 *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSSS-04BMMM-PL8N 10 *	SMSSS-04BFFM-SL8N 10 *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

10 Cable Length: (01) 1M ~ (99) 99M¹⁾

	All Plastic	UL2586, PVC Jacket	-	MSSP-04BFFM-SR8G 10
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	MSSP-04BFFM-SR8S 10
		UL20549, High Flex / Bending PUR	-	MSSP-04BFFM-SR8N 10 *
	Metal Nut	UL2586, PVC Jacket	M12S-04BMMM-PR8G 10 *	M12S-04BFFM-SR8G 10
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	M12S-04BFFM-SR8S 10
		UL20549, High Flex / Bending PUR	M12S-04BMMM-PR8N 10 *	M12S-04BFFM-SR8N 10 *
	Shielded	UL2586, PVC Jacket	MSSS-04BMMM-PR8G 10 *	MSSS-04BFFM-SR8G 10 *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
	Stainless	UL20549, High Flex / Bending PUR	MSSS-04BMMM-PR8N 10 *	MSSS-04BFFM-SR8N 10 *
		UL2586, PVC Jacket	SM12S-04BMMM-PR8G 10 *	SM12S-04BFFM-SR8G 10 *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
	Stainless Shielded	UL20549, High Flex / Bending PUR	SM12S-04BMMM-PR8N 10 *	SM12S-04BFFM-SR8N 10 *
		UL2586, PVC Jacket	SMSSS-04BMMM-PR8G 10 *	SMSSS-04BFFM-SR8G 10 *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4			5 (4+PE)	
T			K	
63V			630V	
12A			16A	
MM	MPronto-12 (M/M)	FF	Male Power / Female Ground	MPronto-12 (M/E)
				
-	-	-	-	-
MSTP-04BMMM-SL8H ¹⁰ *	-	MSTP-04BFFM-SL8H ¹⁰ *	-	-
-	-	-	MSKP-05BMEM-SL8S ¹⁰ *	-
MSTP-04BMMM-SL8N ¹⁰ *	-	MSTP-04BFFM-SL8N ¹⁰ *	MSKP-05BMEM-SL8N ¹⁰ *	-
-	-	-	-	-
M12T-04BMMM-SL8H ¹⁰ *	M12T-04BMMM-PL8H ¹⁰ *	M12T-04BFFM-SL8H ¹⁰	-	-
-	-	-	M12K-05BMEM-SL8S ¹⁰ *	M12K-05BMEM-PL8S ¹⁰ *
M12T-04BMMM-SL8N ¹⁰ *	M12T-04BMMM-PL8N ¹⁰ *	M12T-04BFFM-SL8N ¹⁰ *	M12K-05BMEM-SL8N ¹⁰ *	M12K-05BMEM-PL8N ¹⁰ *
-	-	-	-	-
MSTS-04BMMM-SL8H ¹⁰ *	MSTS-04BMMM-PL8H ¹⁰ *	MSTS-04BFFM-SL8H ¹⁰ *	-	-
MSTS-04BMMM-SL8N ¹⁰ *	MSTS-04BMMM-PL8N ¹⁰ *	MSTS-04BFFM-SL8N ¹⁰ *	MSKS-05BMEM-SL8N ¹⁰ *	MSKS-05BMEM-PL8N ¹⁰ *
-	-	-	-	-
SM12T-04BMMM-SL8H ¹⁰ *	SM12T-04BMMM-PL8H ¹⁰ *	SM12T-04BFFM-SL8H ¹⁰ *	-	-
-	-	-	SM12K-05BMEM-SL8S ¹⁰ *	SM12K-05BMEM-PL8S ¹⁰ *
SM12T-04BMMM-SL8N ¹⁰ *	SM12T-04BMMM-PL8N ¹⁰ *	SM12T-04BFFM-SL8N ¹⁰ *	SM12K-05BMEM-SL8N ¹⁰ *	SM12K-05BMEM-PL8N ¹⁰ *
-	-	-	-	-
SMSTS-04BMMM-SL8H ¹⁰ *	SMSTS-04BMMM-PL8H ¹⁰ *	SMSTS-04BFFM-SL8H ¹⁰ *	-	-
-	-	-	SMSKS-05BMEM-SL8S ¹⁰ *	SMSKS-05BMEM-PL8S ¹⁰ *
SMSTS-04BMMM-SL8N ¹⁰ *	SMSTS-04BMMM-PL8N ¹⁰ *	SMSTS-04BFFM-SL8N ¹⁰ *	SMSKS-05BMEM-SL8N ¹⁰ *	SMSKS-05BMEM-PL8N ¹⁰ *
-	-	-	-	-
MSTP-04BMMM-SR8H ¹⁰ *	-	MSTP-04BFFM-SR8H ¹⁰ *	-	-
-	-	-	MSKP-05BMEM-SR8S ¹⁰ *	-
MSTP-04BMMM-SR8N ¹⁰ *	-	MSTP-04BFFM-SR8N ¹⁰ *	MSKP-05BMEM-SR8N ¹⁰ *	-
-	-	-	-	-
M12T-04BMMM-SR8H ¹⁰ *	M12T-04BMMM-PR8H ¹⁰ *	M12T-04BFFM-SR8H ¹⁰ *	-	-
-	-	-	M12K-05BMEM-SR8S ¹⁰ *	M12K-05BMEM-PR8S ¹⁰ *
M12T-04BMMM-SR8N ¹⁰ *	M12T-04BMMM-PR8N ¹⁰ *	M12T-04BFFM-SR8N ¹⁰ *	M12K-05BMEM-SR8N ¹⁰ *	M12K-05BMEM-PR8N ¹⁰ *
-	-	-	-	-
MSTS-04BMMM-SR8H ¹⁰ *	MSTS-04BMMM-PR8H ¹⁰ *	MSTS-04BFFM-SR8H ¹⁰ *	-	-
-	-	-	MSKS-05BMEM-SR8S ¹⁰ *	MSKS-05BMEM-PR8S ¹⁰ *
MSTS-04BMMM-SR8N ¹⁰ *	MSTS-04BMMM-PR8N ¹⁰ *	MSTS-04BFFM-SR8N ¹⁰ *	MSKS-05BMEM-SR8N ¹⁰ *	MSKS-05BMEM-PR8N ¹⁰ *
-	-	-	-	-
SM12T-04BMMM-SR8H ¹⁰ *	SM12T-04BMMM-PR8H ¹⁰ *	SM12T-04BFFM-SR8H ¹⁰ *	-	-
-	-	-	SM12K-05BMEM-SR8S ¹⁰ *	SM12K-05BMEM-PR8S ¹⁰ *
SM12T-04BMMM-SR8N ¹⁰ *	SM12T-04BMMM-PR8N ¹⁰ *	SM12T-04BFFM-SR8N ¹⁰ *	SM12K-05BMEM-SR8N ¹⁰ *	SM12K-05BMEM-PR8N ¹⁰ *
-	-	-	-	-
SMSTS-04BMMM-SR8H ¹⁰ *	SMSTS-04BMMM-PR8H ¹⁰ *	SMSTS-04BFFM-SR8H ¹⁰ *	-	-
-	-	-	SMSKS-05BMEM-SR8S ¹⁰ *	SMSKS-05BMEM-PR8S ¹⁰ *
SMSTS-04BMMM-SR8N ¹⁰ *	SMSTS-04BMMM-PR8N ¹⁰ *	SMSTS-04BFFM-SR8N ¹⁰ *	SMSKS-05BMEM-SR8N ¹⁰ *	SMSKS-05BMEM-PR8N ¹⁰ *

Number of Contacts	5 (4+PE)	5 (4+PE)
Coding	K	M
Rated Voltage (AC/DC)	630V	630V
Nominal current	16A	8A
Pin Assignment	Female Power / Male Ground	Male Power / Female Ground
MM : Male Connector Male Contact FF : Female Connector Female Contact ME : Male Connector Male PWD + Female GND FD : Female Connector Female PWD + Male GND		

STRAIGHT, Overmolded Cable Assembly, Free Cable End

⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

MM FF K, L code M code 		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSKP-05BFDM-SL8S ⑩ *	MSMP-05BMEM-SL8S ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSKP-05BFDM-SL8N ⑩ *	MSMP-05BMEM-SL8N ⑩ *
		UL20233, PUR Jacket	-	-
	Shielded	UL20234, PUR Jacket	M12K-05BFDM-SL8S ⑩	M12M-05BMEM-SL8S ⑩ *
		UL20549, High Flex / Bending PUR	M12K-05BFDM-SL8N ⑩ *	M12M-05BMEM-SL8N ⑩ *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12K-05BFDM-SL8S ⑩ *	SM12M-05BMEM-SL8S ⑩ *
	Stainless Shielded	UL20549, High Flex / Bending PUR	SM12K-05BFDM-SL8N ⑩ *	SM12M-05BMEM-SL8N ⑩ *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSKS-05BFDM-SL8S ⑩ *	SMSMS-05BMEM-SL8S ⑩ *
		UL20549, High Flex / Bending PUR	SMSKS-05BFDM-SL8N ⑩ *	SMSMS-05BMEM-SL8N ⑩ *

RIGHT ANGLE, Overmolded Cable Assembly, Free Cable End

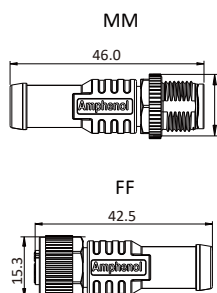
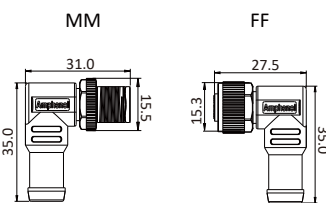
⑩ Cable Length: (01) 1M ~ (99) 99M¹⁾

MM FF K, L code M code 		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSKP-05BFDM-SR8S ⑩ *	MSMP-05BMEM-SR8S ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSKP-05BFDM-SR8N ⑩ *	MSMP-05BMEM-SR8N ⑩ *
		UL20233, PUR Jacket	-	-
	Shielded	UL20234, PUR Jacket	M12K-05BFDM-SR8S ⑩	M12M-05BMEM-SR8S ⑩ *
		UL20549, High Flex / Bending PUR	M12K-05BFDM-SR8N ⑩ *	M12M-05BMEM-SR8N ⑩ *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12K-05BFDM-SR8S ⑩ *	SM12M-05BMEM-SR8S ⑩ *
	Stainless Shielded	UL20549, High Flex / Bending PUR	SM12K-05BFDM-SR8N ⑩ *	SM12M-05BMEM-SR8N ⑩ *
		UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSKS-05BFDM-SR8S ⑩ *	SMSMS-05BMEM-SR8S ⑩ *
		UL20549, High Flex / Bending PUR	SMSKS-05BFDM-SR8N ⑩ *	SMSMS-05BMEM-SR8N ⑩ *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5 (4+PE)		5 (4+FE)		
M		L		
630V		63V		
8A		16A		
MPronto-12 (M/E)	Female Power / Male Ground	Male Power / Female Ground	MPronto-12 (M/E)	Female Power / Male Ground
				
-	-	MSLP-05B MEM -SL8H ¹⁰ *	-	MSLP-05B FDM -SL8H ¹⁰ *
-	MSMP-05B FDM -SL8S ¹⁰ *	-	-	-
-	MSMP-05B FDM -SL8N ¹⁰ *	MSLP-05B MEM -SL8N ¹⁰ *	-	MSLP-05B FDM -SL8N ¹⁰ *
-	-	M12L-05B MEM -SL8H ¹⁰	M12L-05B MEM -PL8H ¹⁰ *	M12L-05B FDM -SL8H ¹⁰ *
M12M-05B MEM -PL8S ¹⁰ *	M12M-05B FDM -SL8S ¹⁰ *	-	-	-
M12M-05B MEM -PL8N ¹⁰ *	M12M-05B FDM -SL8N ¹⁰ *	M12L-05B MEM -SL8N ¹⁰ *	M12L-05B MEM -PL8N ¹⁰ *	M12L-05B FDM -SL8N ¹⁰ *
-	-	MSLS-05B MEM -SL8H ¹⁰ *	MSLS-05B MEM -PL8H ¹⁰ *	MSLS-05B FDM -SL8H ¹⁰ *
MSMS-05B MEM -PL8S ¹⁰ *	MSMS-05B FDM -SL8S ¹⁰ *	-	-	-
MSMS-05B MEM -PL8N ¹⁰ *	MSMS-05B FDM -SL8N ¹⁰ *	MSLS-05B MEM -SL8N ¹⁰ *	MSLS-05B MEM -PL8N ¹⁰ *	MSLS-05B FDM -SL8N ¹⁰ *
-	-	SM12L-05B MEM -SL8H ¹⁰ *	SM12L-05B MEM -PL8H ¹⁰ *	SM12L-05B FDM -SL8H ¹⁰ *
SM12M-05B MEM -PL8S ¹⁰ *	SM12M-05B FDM -SL8S ¹⁰ *	-	-	-
SM12M-05B MEM -PL8N ¹⁰ *	SM12M-05B FDM -SL8N ¹⁰ *	SM12L-05B MEM -SL8N ¹⁰ *	SM12L-05B MEM -PL8N ¹⁰ *	SM12L-05B FDM -SL8N ¹⁰ *
-	-	SMSLS-05B MEM -SL8H ¹⁰ *	SMSLS-05B MEM -PL8H ¹⁰ *	SMSLS-05B FDM -SL8H ¹⁰ *
SMSMS-05B MEM -PL8S ¹⁰ *	SMSMS-05B FDM -SL8S ¹⁰ *	-	-	-
SMSMS-05B MEM -PL8N ¹⁰ *	SMSMS-05B FDM -SL8N ¹⁰ *	SMSLS-05B MEM -SL8N ¹⁰ *	SMSLS-05B MEM -PL8N ¹⁰ *	SMSLS-05B FDM -SL8N ¹⁰ *
-	-	MSLP-05B MEM -SR8H ¹⁰ *	-	MSLP-05B FDM -SR8H ¹⁰ *
-	MSMP-05B FDM -SR8S ¹⁰ *	-	-	-
-	MSMP-05B FDM -SR8N ¹⁰ *	MSLP-05B MEM -SR8N ¹⁰ *	-	MSLP-05B FDM -SR8N ¹⁰ *
-	-	M12L-05B MEM -SR8H ¹⁰	M12L-05B MEM -PR8H ¹⁰ *	M12L-05B FDM -SR8H ¹⁰ *
M12M-05B MEM -PR8S ¹⁰ *	M12M-05B FDM -SR8S ¹⁰ *	-	-	-
M12M-05B MEM -PR8N ¹⁰ *	M12M-05B FDM -SR8N ¹⁰ *	M12L-05B MEM -SR8N ¹⁰ *	M12L-05B MEM -PR8N ¹⁰ *	M12L-05B FDM -SR8N ¹⁰ *
-	-	MSLS-05B MEM -SR8H ¹⁰ *	MSLS-05B MEM -PR8H ¹⁰ *	MSLS-05B FDM -SR8H ¹⁰ *
MSMS-05B MEM -PR8S ¹⁰ *	MSMS-05B FDM -SR8S ¹⁰ *	-	-	-
MSMS-05B MEM -PR8N ¹⁰ *	MSMS-05B FDM -SR8N ¹⁰ *	MSLS-05B MEM -SR8N ¹⁰ *	MSLS-05B MEM -PR8N ¹⁰ *	MSLS-05B FDM -SR8N ¹⁰ *
-	-	SM12L-05B MEM -SR8H ¹⁰ *	SM12L-05B MEM -PR8H ¹⁰ *	SM12L-05B FDM -SR8H ¹⁰ *
SM12M-05B MEM -PR8S ¹⁰ *	SM12M-05B FDM -SR8S ¹⁰ *	-	-	-
SM12M-05B MEM -PR8N ¹⁰ *	SM12M-05B FDM -SR8N ¹⁰ *	SM12L-05B MEM -SR8N ¹⁰ *	SM12L-05B MEM -PR8N ¹⁰ *	SM12L-05B FDM -SR8N ¹⁰ *
-	-	SMSLS-05B MEM -SR8H ¹⁰ *	SMSLS-05B MEM -PR8H ¹⁰ *	SMSLS-05B FDM -SR8H ¹⁰ *
SMSMS-05B MEM -PR8S ¹⁰ *	SMSMS-05B FDM -SR8S ¹⁰ *	-	-	-
SMSMS-05B MEM -PR8N ¹⁰ *	SMSMS-05B FDM -SR8N ¹⁰ *	SMSLS-05B MEM -SR8N ¹⁰ *	SMSLS-05B MEM -PR8N ¹⁰ *	SMSLS-05B FDM -SR8N ¹⁰ *

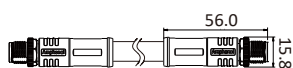
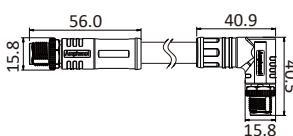
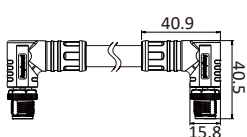
Number of Contacts		6 (5+PE)		
Coding		M		
Rated Voltage (AC/DC)		630V		
Nominal current		8A		
Pin Assignment		Male Power / Female Ground	MPronto-12 (M/E)	
MM : Male Connector Male Contact FF : Female Connector Female Contact ME : Male Connector Male PWD + Female GND FD : Female Connector Female PWD + Male GND				
STRAIGHT , Overmolded Cable Assembly, Free Cable End				
10 Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	All Plastic	UL20234, PUR Jacket	MSMP-06B MEM -SL8S 10 *	-
		UL20549, High Flex / Bending PUR	MSMP-06B MEM -SL8N 10 *	-
	Metal Nut	UL20234, PUR Jacket	M12M-06B MEM -SL8S 10 *	M12M-06B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	M12M-06B MEM -SL8N 10 *	M12M-06B MEM -PL8N 10 *
	Shielded	UL20234, PUR Jacket	MSMS-06B MEM -SL8S 10 *	MSMS-06B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	MSMS-06B MEM -SL8N 10 *	MSMS-06B MEM -PL8N 10 *
	Stainless	UL20234, PUR Jacket	SM12M-06B MEM -SL8S 10 *	SM12M-06B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	SM12M-06B MEM -SL8N 10 *	SM12M-06B MEM -PL8N 10 *
	Stainless Shielded	UL20234, PUR Jacket	SMSMS-06B MEM -SL8S 10 *	SMSMS-06B MEM -PL8S 10 *
		UL20549, High Flex / Bending PUR	SMSMS-06B MEM -SL8N 10 *	SMSMS-06B MEM -PL8N 10 *
RIGHT ANGLE , Overmolded Cable Assembly, Free Cable End				
10 Cable Length: (01) 1M ~ (99) 99M ¹⁾				
	All Plastic	UL20234, PUR Jacket	MSMP-06B MEM -SR8S 10 *	-
		UL20549, High Flex / Bending PUR	MSMP-06B MEM -SR8N 10 *	-
	Metal Nut	UL20234, PUR Jacket	M12M-06B MEM -SR8S 10 *	M12M-06B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	M12M-06B MEM -SR8N 10 *	M12M-06B MEM -PR8N 10 *
	Shielded	UL20234, PUR Jacket	MSMS-06B MEM -SR8S 10 *	MSMS-06B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	MSMS-06B MEM -SR8N 10 *	MSMS-06B MEM -PR8N 10 *
	Stainless	UL20234, PUR Jacket	SM12M-06B MEM -SR8S 10 *	SM12M-06B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	SM12M-06B MEM -SR8N 10 *	SM12M-06B MEM -PR8N 10 *
	Stainless Shielded	UL20234, PUR Jacket	SMSMS-06B MEM -SR8S 10 *	SMSMS-06B MEM -PR8S 10 *
		UL20549, High Flex / Bending PUR	SMSMS-06B MEM -SR8N 10 *	SMSMS-06B MEM -PR8N 10 *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

6 (5+PE)
M
630V
8A
Female Power / Male Ground

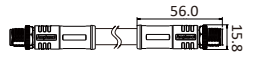
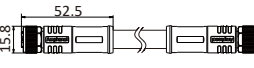
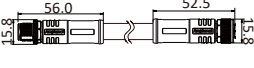
MSMP-06BFDM-SL8S ¹⁰ *
MSMP-06BFDM-SL8N ¹⁰ *
M12M-06BFDM-SL8S ¹⁰ *
M12M-06BFDM-SL8N ¹⁰ *
MSMS-06BFDM-SL8S ¹⁰ *
MSMS-06BFDM-SL8N ¹⁰ *
SM12M-06BFDM-SL8S ¹⁰ *
SM12M-06BFDM-SL8N ¹⁰ *
SMSMS-06BFDM-SL8S ¹⁰ *
SMSMS-06BFDM-SL8N ¹⁰ *
MSMP-06BFDM-SR8S ¹⁰ *
MSMP-06BFDM-SR8N ¹⁰ *
M12M-06BFDM-SR8S ¹⁰ *
M12M-06BFDM-SR8N ¹⁰ *
MSMS-06BFDM-SR8S ¹⁰ *
MSMS-06BFDM-SR8N ¹⁰ *
SM12M-06BFDM-SR8S ¹⁰ *
SM12M-06BFDM-SR8N ¹⁰ *
SMSMS-06BFDM-SR8S ¹⁰ *
SMSMS-06BFDM-SR8N ¹⁰ *

Number of Contacts		2		
Coding		L		
Rated Voltage (AC/DC)		63V		
Nominal current		16A		
Pin Assignment		MM		
MM : Male Connector Male Contact				
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly				
⑩ Cable Length: (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM				
	All Plastic	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	MSLP02ML-SLPML-SH ⑩* MSLP02ML-SLPML-SN ⑩*	
	Metal Nut	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	M12L02ML-12LML-SH ⑩* M12L02ML-12LML-SN ⑩*	
	Shielded	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	MSLS02ML-SLSML-SH ⑩* MSLS02ML-SLSML-SN ⑩*	
	Stainless	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	SM12L02ML-12LML-SH ⑩* SM12L02ML-12LML-SN ⑩*	
	Stainless	UL20233, PUR Jacket	SMSLS02ML-SLSML-SH ⑩*	
	Shielded	UL20549, High Flex / Bending PUR	SMSLS02ML-SLSML-SN ⑩*	
	STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly			
	⑩ Cable Length: (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM			
	All Plastic	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	MSLP02ML-SLPMR-SH ⑩* MSLP02ML-SLPMR-SN ⑩*	
	Metal Nut	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	M12L02ML-12LMR-SH ⑩* M12L02ML-12LMR-SN ⑩*	
	Shielded	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	MSLS02ML-SLSMR-SH ⑩* MSLS02ML-SLSMR-SN ⑩*	
	Stainless	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	SM12L02ML-12LMR-SH ⑩* SM12L02ML-12LMR-SN ⑩*	
	Stainless	UL20233, PUR Jacket	SMSLS02ML-SLSMR-SH ⑩*	
	Shielded	UL20549, High Flex / Bending PUR	SMSLS02ML-SLSMR-SN ⑩*	
	RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly			
	⑩ Cable Length: (001) 1M ~ (099) 99M ¹⁾ Connector / Contact Gender: (M) MM			
	All Plastic	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	MSLP02MR-SLPMR-SH ⑩* MSLP02MR-SLPMR-SN ⑩*	
	Metal Nut	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	M12L02MR-12LMR-SH ⑩* M12L02MR-12LMR-SN ⑩*	
	Shielded	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	MSLS02MR-SLSMR-SH ⑩* MSLS02MR-SLSMR-SN ⑩*	
	Stainless	UL20233, PUR Jacket UL20549, High Flex / Bending PUR	SM12L02MR-12LMR-SH ⑩* SM12L02MR-12LMR-SN ⑩*	
	Stainless	UL20233, PUR Jacket	SMSLS02MR-SLSMR-SH ⑩*	
	Shielded	UL20549, High Flex / Bending PUR	SMSLS02MR-SLSMR-SN ⑩*	

Number of Contacts	2	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	16A	
Pin Assignment	MF	FM
MM: Male Connector Male Contact FF: Female Connector Female Contact		

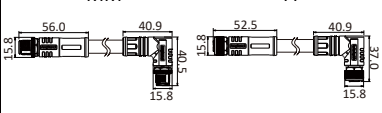
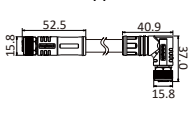
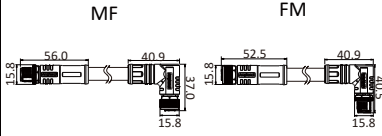
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM 	All Plastic	UL20233, PUR Jacket	MSLP02 ML -SLPFL-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	MSLP02 ML -SLPFL-SN ¹⁰ *	-
FF 	Metal Nut	UL20233, PUR Jacket	M12L02 ML -12LFL-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	M12L02 ML -12LFL-SN ¹⁰ *	-
MF 	Shielded	UL20233, PUR Jacket	MSLS02 ML -SLSFL-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	MSLS02 ML -SLSFL-SN ¹⁰ *	-
	Stainless	UL20233, PUR Jacket	SM12L02 ML -12LFL-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SM12L02 ML -12LFL-SN ¹⁰ *	-
	Stainless Shielded	UL20233, PUR Jacket	SMSLS02 ML -SLSFL-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SMSLS02 ML -SLSFL-SN ¹⁰ *	-

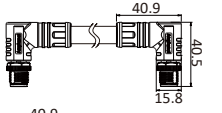
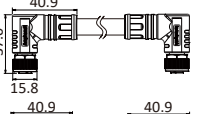
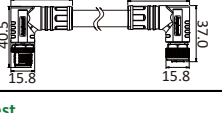
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM 	All Plastic	UL20233, PUR Jacket	MSLP02 ML -SLPFR-SH ¹⁰ *	MSLP02 FL -SLPMR-SH ¹⁰ *
		UL20549, High Flex / Bending PUR	MSLP02 ML -SLPFR-SN ¹⁰ *	MSLP02 FL -SLPMR-SN ¹⁰ *
FF 	Metal Nut	UL20233, PUR Jacket	M12L02 ML -12LFR-SH ¹⁰ *	M12L02 FL -12LMR-SH ¹⁰ *
		UL20549, High Flex / Bending PUR	M12L02 ML -12LFR-SN ¹⁰ *	M12L02 FL -12LMR-SN ¹⁰ *
MF 	Shielded	UL20233, PUR Jacket	MSLS02 ML -SLSFR-SH ¹⁰ *	MSLS02 FL -SLSMR-SH ¹⁰ *
		UL20549, High Flex / Bending PUR	MSLS02 ML -SLSFR-SN ¹⁰ *	MSLS02 FL -SLSMR-SN ¹⁰ *
	Stainless	UL20233, PUR Jacket	SM12L02 ML -12LFR-SH ¹⁰ *	SM12L02 FL -12LMR-SH ¹⁰ *
		UL20549, High Flex / Bending PUR	SM12L02 ML -12LFR-SN ¹⁰ *	SM12L02 FL -12LMR-SN ¹⁰ *
	Stainless Shielded	UL20233, PUR Jacket	SMSLS02 ML -SLSFR-SH ¹⁰ *	SMSLS02 FL -SLSMR-SH ¹⁰ *
		UL20549, High Flex / Bending PUR	SMSLS02 ML -SLSFR-SN ¹⁰ *	SMSLS02 FL -SLSMR-SN ¹⁰ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

¹⁰ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

MM 	All Plastic	UL20233, PUR Jacket	MSLP02 MR -SLPFR-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	MSLP02 MR -SLPFR-SN ¹⁰ *	-
FF 	Metal Nut	UL20233, PUR Jacket	M12L02 MR -12LFR-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	M12L02 MR -12LFR-SN ¹⁰ *	-
MF 	Shielded	UL20233, PUR Jacket	MSLS02 MR -SLSFR-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	MSLS02 MR -SLSFR-SN ¹⁰ *	-
	Stainless	UL20233, PUR Jacket	SM12L02 MR -12LFR-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SM12L02 MR -12LFR-SN ¹⁰ *	-
	Stainless Shielded	UL20233, PUR Jacket	SMSLS02 MR -SLSFR-SH ¹⁰ *	-
		UL20549, High Flex / Bending PUR	SMSLS02 MR -SLSFR-SN ¹⁰ *	-

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

2		2		
L		T		
63V		63V		
16A		12A		
MPronto-12 (M/M)	FF	MM	MF	FM
				
-	MSLP02FL-SLPFL-SH ¹⁰ *	MSTP02ML-STPML-SH ¹⁰ *	MSTP02ML-STPFL-SH ¹⁰ *	-
-	MSLP02FL-SLPFL-SN ¹⁰ *	MSTP02ML-STPML-SN ¹⁰ *	MSTP02ML-STPFL-SN ¹⁰ *	-
M12L02ML-12LML-PH ¹⁰ *	M12L02FL-12LFL-SH ¹⁰ *	M12T02ML-12TML-SH ¹⁰ *	M12T02ML-12TFL-SH ¹⁰ *	-
M12L02ML-SLPML-PN ¹⁰ *	M12L02FL-12LFL-SN ¹⁰ *	M12T02ML-12TML-SN ¹⁰ *	M12T02ML-12TFL-SN ¹⁰ *	-
MSLS02ML-SLSML-PH ¹⁰ *	MSLS02FL-SLSFL-SH ¹⁰ *	MSTS02ML-STSMML-SH ¹⁰ *	MSTS02ML-STSFSL-SH ¹⁰ *	-
MSLS02ML-SLSML-PN ¹⁰ *	MSLS02FL-SLSFL-SN ¹⁰ *	MSTS02ML-STSMML-SN ¹⁰ *	MSTS02ML-STSFSL-SN ¹⁰ *	-
SM12L02ML-12LML-PH ¹⁰ *	SM12L02FL-12LFL-SH ¹⁰ *	SM12T02ML-12TML-SH ¹⁰ *	SM12T02ML-12TFL-SH ¹⁰ *	-
SM12L02ML-SLPML-PN ¹⁰ *	SM12L02FL-12LFL-SN ¹⁰ *	SM12T02ML-12TML-SN ¹⁰ *	SM12T02ML-12TFL-SN ¹⁰ *	-
SMSLS02ML-SLSML-PH ¹⁰ *	SMSLS02FL-SLSFL-SH ¹⁰ *	SMSTS02ML-STSMML-SH ¹⁰ *	SMSTS02ML-STSFSL-SH ¹⁰ *	-
SMSLS02ML-SLSML-PN ¹⁰ *	SMSLS02FL-SLSFL-SN ¹⁰ *	SMSTS02ML-STSMML-SN ¹⁰ *	SMSTS02ML-STSFSL-SN ¹⁰ *	-
-	MSLP02FL-SLPFR-SH ¹⁰ *	MSTP02ML-STPMR-SH ¹⁰ *	MSTP02ML-STPFR-SH ¹⁰ *	MSTP02FL-STPMR-SH ¹⁰ *
-	MSLP02FL-SLPFR-SN ¹⁰ *	MSTP02ML-STPMR-SN ¹⁰ *	MSTP02ML-STPFR-SN ¹⁰ *	MSTP02FL-STPMR-SN ¹⁰ *
M12L02ML-12LMR-PH ¹⁰ *	M12L02FL-12LFR-SH ¹⁰ *	M12T02ML-12TMR-SH ¹⁰ *	M12T02ML-12TFR-SH ¹⁰ *	M12T02FL-12TMR-SH ¹⁰ *
M12L02ML-SLPMR-PN ¹⁰ *	M12L02FL-12LFR-SN ¹⁰ *	M12T02ML-12TMR-SN ¹⁰ *	M12T02ML-12TFR-SN ¹⁰ *	M12T02FL-12TMR-SN ¹⁰ *
MSLS02ML-SLSMR-PH ¹⁰ *	MSLS02FL-SLSFR-SH ¹⁰ *	MSTS02ML-STSMR-SH ¹⁰ *	MSTS02ML-STSFR-SH ¹⁰ *	MSTS02FL-STSMR-SH ¹⁰ *
MSLS02ML-SLSMR-PN ¹⁰ *	MSLS02FL-SLSFR-SN ¹⁰ *	MSTS02ML-STSMR-SN ¹⁰ *	MSTS02ML-STSFR-SN ¹⁰ *	MSTS02FL-STSMR-SN ¹⁰ *
SM12L02ML-12LMR-PH ¹⁰ *	SM12L02FL-12LFR-SH ¹⁰ *	SM12T02ML-12TMR-SH ¹⁰ *	SM12T02ML-12TFR-SH ¹⁰ *	SM12T02FL-12TMR-SH ¹⁰ *
SM12L02ML-SLPMR-PN ¹⁰ *	SM12L02FL-12LFR-SN ¹⁰ *	SM12T02ML-12TMR-SN ¹⁰ *	SM12T02ML-12TFR-SN ¹⁰ *	SM12T02FL-12TMR-SN ¹⁰ *
SMSLS02ML-SLSMR-PH ¹⁰ *	SMSLS02FL-SLSFR-SH ¹⁰ *	SMSTS02ML-STSMR-SH ¹⁰ *	SMSTS02ML-STSFR-SH ¹⁰ *	SMSTS02FL-STSMR-SH ¹⁰ *
SMSLS02ML-SLSMR-PN ¹⁰ *	SMSLS02FL-SLSFR-SN ¹⁰ *	SMSTS02ML-STSMR-SN ¹⁰ *	SMSTS02ML-STSFR-SN ¹⁰ *	SMSTS02FL-STSMR-SN ¹⁰ *
-	MSLP02FR-SLPFR-SH ¹⁰ *	MSTP02MR-STPMR-SH ¹⁰ *	MSTP02MR-STPFR-SH ¹⁰ *	-
-	MSLP02FR-SLPFR-SN ¹⁰ *	MSTP02MR-STPMR-SN ¹⁰ *	MSTP02MR-STPFR-SN ¹⁰ *	-
M12L02MR-12LMR-PH ¹⁰ *	M12L02FR-12LFR-SH ¹⁰ *	M12T02MR-12TMR-SH ¹⁰ *	M12T02MR-12TFR-SH ¹⁰ *	-
M12L02MR-SLPMR-PN ¹⁰ *	M12L02FR-12LFR-SN ¹⁰ *	M12T02MR-12TMR-SN ¹⁰ *	M12T02MR-12TFR-SN ¹⁰ *	-
MSLS02MR-SLSMR-PH ¹⁰ *	MSLS02FR-SLSFR-SH ¹⁰ *	MSTS02MR-STSMR-SH ¹⁰ *	MSTS02MR-STSFR-SH ¹⁰ *	-
MSLS02MR-SLSMR-PN ¹⁰ *	MSLS02FR-SLSFR-SN ¹⁰ *	MSTS02MR-STSMR-SN ¹⁰ *	MSTS02MR-STSFR-SN ¹⁰ *	-
SM12L02MR-12LMR-PH ¹⁰ *	SM12L02FR-12LFR-SH ¹⁰ *	SM12T02MR-12TMR-SH ¹⁰ *	SM12T02MR-12TFR-SH ¹⁰ *	-
SM12L02MR-SLPMR-PN ¹⁰ *	SM12L02FR-12LFR-SN ¹⁰ *	SM12T02MR-12TMR-SN ¹⁰ *	SM12T02MR-12TFR-SN ¹⁰ *	-
SMSLS02MR-SLSMR-PH ¹⁰ *	SMSLS02FR-SLSFR-SH ¹⁰ *	SMSTS02MR-STSMR-SH ¹⁰ *	SMSTS02MR-STSFR-SH ¹⁰ *	-
SMSLS02MR-SLSMR-PN ¹⁰ *	SMSLS02FR-SLSFR-SN ¹⁰ *	SMSTS02MR-STSMR-SN ¹⁰ *	SMSTS02MR-STSFR-SN ¹⁰ *	-

Screw Threaded (M12 * 1.0) Overmolded Cable

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

* Upon Request

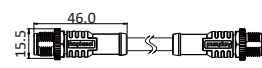
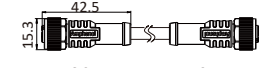
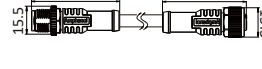
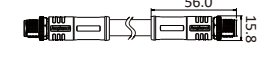
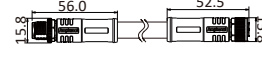
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3 (2+PE)				
K				
630V				
16A				
Male Power / Female Ground	MF	FM	MPronto-12 (M/M)	Female Power / Male Ground
				
-	-	-	-	-
MSKP03EL-SKPEL-SS ¹⁰ *	MSKP03EL-SKPDL-SS ¹⁰ *	-	-	MSKP03DL-SKPDL-SS ¹⁰ *
MSKP03EL-SKPEL-SN ¹⁰ *	MSKP03EL-SKPDL-SN ¹⁰ *	-	-	MSKP03DL-SKPDL-SN ¹⁰ *
-	-	-	-	-
M12K03EL-12KEL-SS ¹⁰ *	M12K03EL-12KDL-SS ¹⁰ *	-	M12K03EL-SKPEL-PS ¹⁰ *	M12K03DL-12KDL-SS ¹⁰ *
M12K03EL-12KEL-SN ¹⁰ *	M12K03EL-12KDL-SN ¹⁰ *	-	M12K03EL-SKPEL-PN ¹⁰ *	M12K03DL-12KDL-SN ¹⁰ *
-	-	-	-	-
MSKS03EL-SKSEL-SS ¹⁰ *	MSKS03EL-SKSDL-SS ¹⁰ *	-	MSKS03EL-SKSEL-PS ¹⁰ *	MSKS03DL-SKSDL-SS ¹⁰ *
MSKS03EL-SKSEL-SN ¹⁰ *	MSKS03EL-SKSDL-SN ¹⁰ *	-	MSKS03EL-SKSEL-PN ¹⁰ *	MSKS03DL-SKSDL-SN ¹⁰ *
-	-	-	-	-
SM12K03EL-12KEL-SS ¹⁰ *	SM12K03EL-12KDL-SS ¹⁰ *	-	SM12K03EL-SKPEL-PS ¹⁰ *	SM12K03DL-12KDL-SS ¹⁰ *
SM12K03EL-12KEL-SN ¹⁰ *	SM12K03EL-12KDL-SN ¹⁰ *	-	SM12K03EL-SKPEL-PN ¹⁰ *	SM12K03DL-12KDL-SN ¹⁰ *
-	-	-	-	-
SMSKS03EL-SKSEL-SS ¹⁰ *	SMSKS03EL-SKSDL-SS ¹⁰ *	-	SMSKS03EL-SKSEL-PS ¹⁰ *	SMSKS03DL-SKSDL-SS ¹⁰ *
SMSKS03EL-SKSEL-SN ¹⁰ *	SMSKS03EL-SKSDL-SN ¹⁰ *	-	SMSKS03EL-SKSEL-PN ¹⁰ *	SMSKS03DL-SKSDL-SN ¹⁰ *
-	-	-	-	-
MSKP03EL-SKPER-SS ¹⁰ *	MSKP03EL-SKPDR-SS ¹⁰ *	MSKP03DL-SKPER-SS ¹⁰ *	-	MSKP03DL-SKPDR-SS ¹⁰ *
MSKP03EL-SKPER-SN ¹⁰ *	MSKP03EL-SKPDR-SN ¹⁰ *	MSKP03DL-SKPER-SN ¹⁰ *	-	MSKP03DL-SKPDR-SN ¹⁰ *
-	-	-	-	-
M12K03EL-12KER-SS ¹⁰ *	M12K03EL-12KDR-SS ¹⁰ *	M12K03DL-12KER-SS ¹⁰ *	M12K03EL-12KER-PS ¹⁰ *	M12K03DL-12KDR-SS ¹⁰ *
M12K03EL-12KER-SN ¹⁰ *	M12K03EL-12KDR-SN ¹⁰ *	M12K03DL-12KER-SN ¹⁰ *	M12K03EL-SKPER-PN ¹⁰ *	M12K03DL-12KDR-SN ¹⁰ *
-	-	-	-	-
M12K03EL-12KER-SS ¹⁰ *	MSKS03EL-SKSDR-SS ¹⁰ *	MSKS03DL-SKSER-SS ¹⁰ *	M12K03EL-12KER-PS ¹⁰ *	M12K03DL-12KDR-SS ¹⁰ *
MSKS03EL-SKSER-SN ¹⁰ *	MSKS03EL-SKSDR-SN ¹⁰ *	MSKS03DL-SKSER-SN ¹⁰ *	MSKS03EL-SKSER-PN ¹⁰ *	MSKS03DL-SKSDR-SN ¹⁰ *
-	-	-	-	-
SM12K03EL-12KER-SS ¹⁰ *	SM12K03EL-12KDR-SS ¹⁰ *	SM12K03DL-12KER-SS ¹⁰ *	SM12K03EL-12KER-PS ¹⁰ *	SM12K03DL-12KDR-SS ¹⁰ *
SM12K03EL-12KER-SN ¹⁰ *	SM12K03EL-12KDR-SN ¹⁰ *	SM12K03DL-12KER-SN ¹⁰ *	SM12K03EL-SKPER-PN ¹⁰ *	SM12K03DL-12KDR-SN ¹⁰ *
-	-	-	-	-
SMSKS03EL-SKSER-SS ¹⁰ *	SMSKS03EL-SKSDR-SS ¹⁰ *	SMSKS03DL-SKSER-SS ¹⁰ *	SMSKS03EL-SKSER-PS ¹⁰ *	SMSKS03DL-SKSDR-SS ¹⁰ *
SMSKS03EL-SKSER-SN ¹⁰ *	SMSKS03EL-SKSDR-SN ¹⁰ *	SMSKS03DL-SKSER-SN ¹⁰ *	SMSKS03EL-SKSER-PN ¹⁰ *	SMSKS03DL-SKSDR-SN ¹⁰ *
-	-	-	-	-
MSKP03ER-SKPER-SS ¹⁰ *	MSKP03ER-SKPDR-SS ¹⁰ *	-	-	MSKP03DR-SKPDR-SS ¹⁰ *
MSKP03ER-SKPER-SN ¹⁰ *	MSKP03ER-SKPDR-SN ¹⁰ *	-	-	MSKP03DR-SKPDR-SN ¹⁰ *
-	-	-	-	-
M12K03ER-12KER-SS ¹⁰ *	M12K03ER-12KDR-SS ¹⁰ *	-	M12K03ER-12KER-PS ¹⁰ *	M12K03DR-12KDR-SS ¹⁰ *
M12K03ER-12KER-SN ¹⁰ *	M12K03ER-12KDR-SN ¹⁰ *	-	M12K03ER-SKPER-PN ¹⁰ *	M12K03DR-12KDR-SN ¹⁰ *
-	-	-	-	-
MSKS03ER-SKSER-SS ¹⁰ *	MSKS03ER-SKSDR-SS ¹⁰ *	-	MSKS03ER-SKSER-PS ¹⁰ *	MSKS03DR-SKSDR-SS ¹⁰ *
MSKS03ER-SKSER-SN ¹⁰ *	MSKS03ER-SKSDR-SN ¹⁰ *	-	MSKS03ER-SKSER-PN ¹⁰ *	MSKS03DR-SKSDR-SN ¹⁰ *
-	-	-	-	-
SM12K03ER-12KER-SS ¹⁰ *	SM12K03ER-12KDR-SS ¹⁰ *	-	SM12K03ER-SKPER-PS ¹⁰ *	SM12K03DR-12KDR-SS ¹⁰ *
SM12K03ER-12KER-SN ¹⁰ *	SM12K03ER-12KDR-SN ¹⁰ *	-	SM12K03ER-SKPER-PN ¹⁰ *	SM12K03DR-12KDR-SN ¹⁰ *
-	-	-	-	-
SMSKS03ER-SKSER-SS ¹⁰ *	SMSKS03ER-SKSDR-SS ¹⁰ *	-	SMSKS03ER-SKSER-PS ¹⁰ *	SMSKS03DR-SKSDR-SS ¹⁰ *
SMSKS03ER-SKSER-SN ¹⁰ *	SMSKS03ER-SKSDR-SN ¹⁰ *	-	SMSKS03ER-SKSER-PN ¹⁰ *	SMSKS03DR-SKSDR-SN ¹⁰ *

Number of Contacts	3 (2+PE)	
Coding	M	
Rated Voltage (AC/DC)	630V	
Nominal current	8A	
Pin Assignment	Male Power / Female Ground	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact PE⁽¹⁾ : Male Ground PE⁽²⁾ : Female Ground		

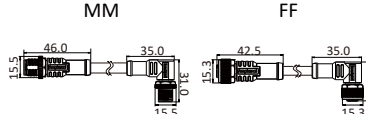
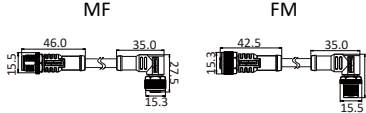
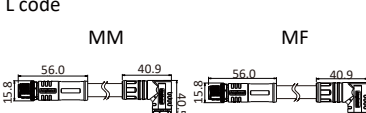
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

M code MM  FF  MF  L code MM  MF 	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMP03EL-SMPEL-SS 10 *	MSMP03EL-SMPDL-SS 10 *
		UL20549, High Flex / Bending PUR	MSMP03EL-SMPEL-SN 10 *	MSMP03EL-SMPDL-SN 10 *
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M03EL-12MEL-SS 10 *	M12M03EL-12MDL-SS 10 *
		UL20549, High Flex / Bending PUR	M12M03EL-12MEL-SN 10 *	M12M03EL-12MDL-SN 10 *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMS03EL-SMSEL-SS 10 *	MSMS03EL-SMSDL-SS 10 *
		UL20549, High Flex / Bending PUR	MSMS03EL-SMSEL-SN 10 *	MSMS03EL-SMSDL-SN 10 *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12M03EL-12MEL-SS 10 *	SM12M03EL-12MDL-SS 10 *
		UL20549, High Flex / Bending PUR	SM12M03EL-12MEL-SN 10 *	SM12M03EL-12MDL-SN 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSMS03EL-SMSEL-SS 10 *	SMSMS03EL-SMSDL-SS 10 *
		UL20549, High Flex / Bending PUR	SMSMS03EL-SMSEL-SN 10 *	SMSMS03EL-SMSDL-SN 10 *

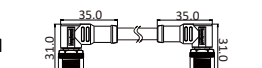
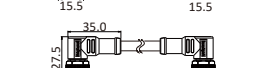
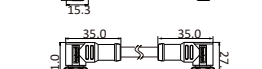
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

M code MM FF  MF FM  L code MM MF 	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMP03EL-SMPER-SS 10 *	MSMP03EL-SMPDR-SS 10 *
		UL20549, High Flex / Bending PUR	MSMP03EL-SMPER-SN 10 *	MSMP03EL-SMPDR-SN 10 *
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M03EL-12MER-SS 10 *	M12M03EL-12MDR-SS 10 *
		UL20549, High Flex / Bending PUR	M12M03EL-12MER-SN 10 *	M12M03EL-12MDR-SN 10 *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M03EL-12MER-SS 10 *	MSMS03EL-SMSDR-SS 10 *
		UL20549, High Flex / Bending PUR	MSMS03EL-SMSER-SN 10 *	MSMS03EL-SMSDR-SN 10 *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12M03EL-12MER-SS 10 *	SM12M03EL-12MDR-SS 10 *
		UL20549, High Flex / Bending PUR	SM12M03EL-12MER-SN 10 *	SM12M03EL-12MDR-SN 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSMS03EL-SMSER-SS 10 *	SMSMS03EL-SMSDR-SS 10 *
		UL20549, High Flex / Bending PUR	SMSMS03EL-SMSER-SN 10 *	SMSMS03EL-SMSDR-SN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

M code MM  FF  MF  L code MM  MF 	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMP03ER-SMPER-SS 10 *	MSMP03ER-SMPDR-SS 10 *
		UL20549, High Flex / Bending PUR	MSMP03ER-SMPER-SN 10 *	MSMP03ER-SMPDR-SN 10 *
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M03ER-12MER-SS 10 *	M12M03ER-12MDR-SS 10 *
		UL20549, High Flex / Bending PUR	M12M03ER-12MER-SN 10 *	M12M03ER-12MDR-SN 10 *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMS03ER-SMSER-SS 10 *	MSMS03ER-SMSDR-SS 10 *
		UL20549, High Flex / Bending PUR	MSMS03ER-SMSER-SN 10 *	MSMS03ER-SMSDR-SN 10 *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12M03ER-12MER-SS 10 *	SM12M03ER-12MDR-SS 10 *
		UL20549, High Flex / Bending PUR	SM12M03ER-12MER-SN 10 *	SM12M03ER-12MDR-SN 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSMS03ER-SMSER-SS 10 *	SMSMS03ER-SMSDR-SS 10 *
		UL20549, High Flex / Bending PUR	SMSMS03ER-SMSER-SN 10 *	SMSMS03ER-SMSDR-SN 10 *

* Upon Request

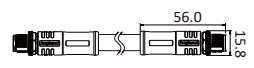
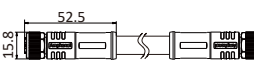
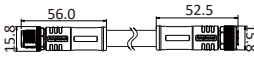
¹⁾ Standard Lengths: 1M, 2M, 3M, M4, M5 and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3 (2+PE)			3	
M			L	
630V			63V	
8A			12A	
FM	MPronto-12 (M/M)	Female Power / Male Ground	MM	MF
				
-	-	-	MSLP03 ML -SLP ML -SH 10 *	MSLP03 ML -SLP FL -SH 10 *
-	-	MSMP03 DL -SMP DL -SS 10 *	-	-
-	-	MSMP03 DL -SMP DL -SN 10 *	MSLP03 ML -SLP ML -SN 10 *	MSLP03 ML -SLP FL -SN 10 *
-	-	-	M12L03 ML -12L ML -SH 10 *	M12L03 ML -12L FL -SH 10 *
-	M12M03EL-SMPEL-PS 10 *	M12M03 DL -12M DL -SS 10 *	-	-
-	M12M03EL-SMPEL-PN 10 *	M12M03 DL -12M DL -SN 10 *	M12L03 ML -12L ML -SN 10 *	M12L03 ML -12L FL -SN 10 *
-	-	-	MSLS03 ML -SLS ML -SH 10 *	MSLS03 ML -SLS FL -SH 10 *
-	MSMS03EL-SMSEL-PS 10 *	MSMS03 DL -SMS DL -SS 10 *	-	-
-	MSMS03EL-SMSEL-PN 10 *	MSMS03 DL -SMS DL -SN 10 *	MSLS03 ML -SLS ML -SN 10 *	MSLS03 ML -SLS FL -SN 10 *
-	-	-	SM12L03 ML -12L ML -SH 10 *	SM12L03 ML -12L FL -SH 10 *
-	SM12M03EL-SMPEL-PS 10 *	SM12M03 DL -12M DL -SS 10 *	-	-
-	SM12M03EL-SMPEL-PN 10 *	SM12M03 DL -12M DL -SN 10 *	SM12L03 ML -12L ML -SN 10 *	SM12L03 ML -12L FL -SN 10 *
-	-	-	SMSLS03 ML -SLS ML -SH 10 *	SMSLS03 ML -SLS FL -SH 10 *
-	SMSMS03EL-SMSEL-PS 10 *	SMSMS03 DL -SMS DL -SS 10 *	-	-
-	SMSMS03EL-SMSEL-PN 10 *	SMSMS03 DL -SMS DL -SN 10 *	SMSLS03 ML -SLS ML -SN 10 *	SMSLS03 ML -SLS FL -SN 10 *
-	-	-	MSLP03 ML -SLP MR -SH 10 *	MSLP03 ML -SLP FR -SH 10 *
MSMP03 DL -SMP ER -SS 10 *	-	MSMP03 DL -SMP DR -SS 10 *	-	-
MSMP03 DL -SMP ER -SN 10 *	-	MSMP03 DL -SMP DR -SN 10 *	MSLP03 ML -SLP MR -SN 10 *	MSLP03 ML -SLP FR -SN 10 *
-	-	-	M12L03 ML -12L MR -SH 10 *	M12L03 ML -12L FR -SH 10 *
M12M03 DL -12M ER -SS 10 *	M12M03EL-12M ER -PS 10 *	M12M03 DL -12M DR -SS 10 *	-	-
M12M03 DL -12M ER -SN 10 *	M12M03EL-SMP ER -PN 10 *	M12M03 DL -12M DR -SN 10 *	M12L03 ML -12L MR -SN 10 *	M12L03 ML -12L FR -SN 10 *
-	-	-	MSLS03 ML -SLS MR -SH 10 *	MSLS03 ML -SLS FR -SH 10 *
MSMS03 DL -SMS ER -SS 10 *	M12M03EL-12M ER -PS 10 *	M12M03 DL -12M DR -SS 10 *	-	-
MSMS03 DL -SMS ER -SN 10 *	MSMS03EL-SMS ER -PN 10 *	MSMS03 DL -SMS DR -SN 10 *	MSLS03 ML -SLS MR -SN 10 *	MSLS03 ML -SLS FR -SN 10 *
-	-	-	SM12L03 ML -12L MR -SH 10 *	SM12L03 ML -12L FR -SH 10 *
SM12M03 DL -12M ER -SS 10 *	SM12M03EL-12M ER -PS 10 *	SM12M03 DL -12M DR -SS 10 *	-	-
SM12M03 DL -12M ER -SN 10 *	SM12M03EL-SMP ER -PN 10 *	SM12M03 DL -12M DR -SN 10 *	SM12L03 ML -12L MR -SN 10 *	SM12L03 ML -12L FR -SN 10 *
-	-	-	SMSLS03 ML -SLS MR -SH 10 *	SMSLS03 ML -SLS FR -SH 10 *
SMSMS03 DL -SMS ER -SS 10 *	SMSMS03EL-SMS ER -PS 10 *	SMSMS03 DL -SMS DR -SS 10 *	-	-
SMSMS03 DL -SMS ER -SN 10 *	SMSMS03EL-SMS ER -PN 10 *	SMSMS03 DL -SMS DR -SN 10 *	SMSLS03 ML -SLS MR -SN 10 *	SMSLS03 ML -SLS FR -SN 10 *
-	-	-	MSLP03 MR -SLP MR -SH 10 *	MSLP03 MR -SLP FR -SH 10 *
-	-	MSMP03 DR -SMP DR -SS 10 *	-	-
-	-	MSMP03 DR -SMP DR -SN 10 *	MSLP03 MR -SLP MR -SN 10 *	MSLP03 MR -SLP FR -SN 10 *
-	-	-	M12L03 MR -12L MR -SH 10 *	M12L03 MR -12L FR -SH 10 *
-	M12M03 ER -12M ER -PS 10 *	M12M03 DR -12M DR -SS 10 *	-	-
-	M12M03 ER -SMP ER -PN 10 *	M12M03 DR -12M DR -SN 10 *	M12L03 MR -12L MR -SN 10 *	M12L03 MR -12L FR -SN 10 *
-	-	-	MSLS03 MR -SLS MR -SH 10 *	MSLS03 MR -SLS FR -SH 10 *
-	MSMS03 ER -SMS ER -PS 10 *	MSMS03 DR -SMS DR -SS 10 *	-	-
-	MSMS03 ER -SMS ER -PN 10 *	MSMS03 DR -SMS DR -SN 10 *	MSLS03 MR -SLS MR -SN 10 *	MSLS03 MR -SLS FR -SN 10 *
-	-	-	SM12L03 MR -12L MR -SH 10 *	SM12L03 MR -12L FR -SH 10 *
-	SM12M03 ER -SMP ER -PS 10 *	SM12M03 DR -12M DR -SS 10 *	-	-
-	SM12M03 ER -SMP ER -PN 10 *	SM12M03 DR -12M DR -SN 10 *	SM12L03 MR -12L MR -SN 10 *	SM12L03 MR -12L FR -SN 10 *
-	-	-	SMSLS03 MR -SLS MR -SH 10 *	SMSLS03 MR -SLS FR -SH 10 *
-	SMSMS03 ER -SMS ER -PS 10 *	SMSMS03 DR -SMS DR -SS 10 *	-	-
-	SMSMS03 ER -SMS ER -PN 10 *	SMSMS03 DR -SMS DR -SN 10 *	SMSLS03 MR -SLS MR -SN 10 *	SMSLS03 MR -SLS FR -SN 10 *

Number of Contacts	3	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	12A	
Pin Assignment	FM	MPronto-12 (M/M)
MM : Male Connector Male Contact FF : Female Connector Female Contact PE⁽¹⁾ : Male Ground PE⁽²⁾ : Female Ground		

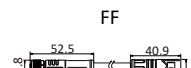
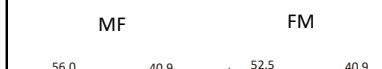
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

MM 	All Plastic	UL20233, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
FF 	Metal Nut	UL20233, PUR Jacket	-	M12L03ML-12LML-PH 10 *
		UL20549, High Flex / Bending PUR	-	M12L03ML-SLPML-PN 10 *
MF 	Shielded	UL20233, PUR Jacket	-	MSLS03ML-SLSML-PH 10 *
		UL20549, High Flex / Bending PUR	-	MSLS03ML-SLSML-PN 10 *
	Stainless	UL20233, PUR Jacket	-	SM12L03ML-12LML-PH 10 *
		UL20549, High Flex / Bending PUR	-	SM12L03ML-SLPML-PN 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	SMSLS03ML-SLSML-PH 10 *
		UL20549, High Flex / Bending PUR	-	SMSLS03ML-SLSML-PN 10 *

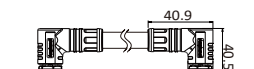
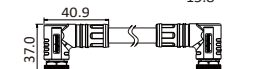
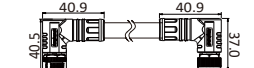
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

MM 	All Plastic	UL20233, PUR Jacket	MSLP03FL-SLPMR-SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLP03FL-SLPMR-SN 10 *	-
FF 	Metal Nut	UL20233, PUR Jacket	M12L03FL-12LMR-SH 10 *	M12L03ML-12LMR-PH 10 *
		UL20549, High Flex / Bending PUR	M12L03FL-12LMR-SN 10 *	M12L03ML-SLPMR-PN 10 *
MF 	Shielded	UL20233, PUR Jacket	MSLS03FL-SLSMR-SH 10 *	MSLS03ML-SLSMR-PH 10 *
		UL20549, High Flex / Bending PUR	MSLS03FL-SLSMR-SN 10 *	MSLS03ML-SLSMR-PN 10 *
FM 	Stainless	UL20233, PUR Jacket	SM12L03FL-12LMR-SH 10 *	SM12L03ML-12LMR-PH 10 *
		UL20549, High Flex / Bending PUR	SM12L03FL-12LMR-SN 10 *	SM12L03ML-SLPMR-PN 10 *
	Stainless Shielded	UL20233, PUR Jacket	SMSLS03FL-SLSMR-SH 10 *	SMSLS03ML-SLSMR-PH 10 *
		UL20549, High Flex / Bending PUR	SMSLS03FL-SLSMR-SN 10 *	SMSLS03ML-SLSMR-PN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

MM 	All Plastic	UL20233, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
FF 	Metal Nut	UL20233, PUR Jacket	-	M12L03MR-12LMR-PH 10 *
		UL20549, High Flex / Bending PUR	-	M12L03MR-SLPMR-PN 10 *
MF 	Shielded	UL20233, PUR Jacket	-	MSLS03MR-SLSMR-PH 10 *
		UL20549, High Flex / Bending PUR	-	MSLS03MR-SLSMR-PN 10 *
	Stainless	UL20233, PUR Jacket	-	SM12L03MR-12LMR-PH 10 *
		UL20549, High Flex / Bending PUR	-	SM12L03MR-SLPML-PN 10 *
	Stainless Shielded	UL20233, PUR Jacket	-	SMSLS03MR-SLSMR-PH 10 *
		UL20549, High Flex / Bending PUR	-	SMSLS03MR-SLSMR-PN 10 *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3	3 (2+FE)			
L	L			
63V	63V			
12A	16A			
FF	Male Power / Female Ground	MF	FM	MPronto-12 (M/M)
				
MSLP03FL-SLPFL-SH ¹⁰ *	MSLP03EL-SLPFL-SH ¹⁰ *	MSLP03EL-SLPDL-SH ¹⁰ *	-	-
MSLP03FL-SLPFL-SN ¹⁰ *	MSLP03EL-SLPFL-SN ¹⁰ *	MSLP03EL-SLPDL-SN ¹⁰ *	-	-
M12L03FL-12LFL-SH ¹⁰ *	M12L03EL-12LEL-SH ¹⁰ *	M12L03EL-12LDL-SH ¹⁰ *	-	M12L03EL-12LEL-PH ¹⁰ *
M12L03FL-12LFL-SN ¹⁰ *	M12L03EL-12LEL-SN ¹⁰ *	M12L03EL-12LDL-SN ¹⁰ *	-	M12L03EL-SLPFL-PN ¹⁰ *
MSLS03FL-SLSFL-SH ¹⁰ *	MSLS03EL-SLSEL-SH ¹⁰ *	MSLS03EL-SLSDL-SH ¹⁰ *	-	MSLS03EL-SLSEL-PH ¹⁰ *
MSLS03FL-SLSFL-SN ¹⁰ *	MSLS03EL-SLSEL-SN ¹⁰ *	MSLS03EL-SLSDL-SN ¹⁰ *	-	MSLS03EL-SLSEL-PN ¹⁰ *
SM12L03FL-12LFL-SH ¹⁰ *	SM12L03EL-12LEL-SH ¹⁰ *	SM12L03EL-12LDL-SH ¹⁰ *	-	SM12L03EL-12LEL-PH ¹⁰ *
SM12L03FL-12LFL-SN ¹⁰ *	SM12L03EL-12LEL-SN ¹⁰ *	SM12L03EL-12LDL-SN ¹⁰ *	-	SM12L03EL-SLPFL-PN ¹⁰ *
SMSLS03FL-SLSFL-SH ¹⁰ *	SMSLS03EL-SLSEL-SH ¹⁰ *	SMSLS03EL-SLSDL-SH ¹⁰ *	-	SMSLS03EL-SLSEL-PH ¹⁰ *
SMSLS03FL-SLSFL-SN ¹⁰ *	SMSLS03EL-SLSEL-SN ¹⁰ *	SMSLS03EL-SLSDL-SN ¹⁰ *	-	SMSLS03EL-SLSEL-PN ¹⁰ *
MSLP03FL-SLPFR-SH ¹⁰ *	MSLP03EL-SLPER-SH ¹⁰ *	MSLP03EL-SLPDR-SH ¹⁰ *	MSLP03DL-SLPER-SH ¹⁰ *	-
MSLP03FL-SLPFR-SN ¹⁰ *	MSLP03EL-SLPER-SN ¹⁰ *	MSLP03EL-SLPDR-SN ¹⁰ *	MSLP03DL-SLPER-SN ¹⁰ *	-
M12L03FL-12LFR-SH ¹⁰ *	M12L03EL-12LER-SH ¹⁰ *	M12L03EL-12LDR-SH ¹⁰ *	M12L03DL-12LER-SH ¹⁰ *	M12L03EL-12LER-PH ¹⁰ *
M12L03FL-12LFR-SN ¹⁰ *	M12L03EL-12LER-SN ¹⁰ *	M12L03EL-12LDR-SN ¹⁰ *	M12L03DL-12LER-SN ¹⁰ *	M12L03EL-SLPER-PN ¹⁰ *
MSLS03FL-SLSFR-SH ¹⁰ *	MSLS03EL-SLSER-SH ¹⁰ *	MSLS03EL-SLSDR-SH ¹⁰ *	MSLS03DL-SLSER-SH ¹⁰ *	MSLS03EL-SLSER-PH ¹⁰ *
MSLS03FL-SLSFR-SN ¹⁰ *	MSLS03EL-SLSER-SN ¹⁰ *	MSLS03EL-SLSDR-SN ¹⁰ *	MSLS03DL-SLSER-SN ¹⁰ *	MSLS03EL-SLSER-PN ¹⁰ *
SM12L03FL-12LFR-SH ¹⁰ *	SM12L03EL-12LER-SH ¹⁰ *	SM12L03EL-12LDR-SH ¹⁰ *	SM12L03DL-12LER-SH ¹⁰ *	SM12L03EL-12LER-PH ¹⁰ *
SM12L03FL-12LFR-SN ¹⁰ *	SM12L03EL-12LER-SN ¹⁰ *	SM12L03EL-12LDR-SN ¹⁰ *	SM12L03DL-12LER-SN ¹⁰ *	SM12L03EL-SLPER-PN ¹⁰ *
SMSLS03FL-SLSFR-SH ¹⁰ *	SMSLS03EL-SLSER-SH ¹⁰ *	SMSLS03EL-SLSDR-SH ¹⁰ *	SMSLS03DL-SLSER-SH ¹⁰ *	SMSLS03EL-SLSER-PH ¹⁰ *
SMSLS03FL-SLSFR-SN ¹⁰ *	SMSLS03EL-SLSER-SN ¹⁰ *	SMSLS03EL-SLSDR-SN ¹⁰ *	SMSLS03DL-SLSER-SN ¹⁰ *	SMSLS03EL-SLSER-PN ¹⁰ *
MSLP03FR-SLPFR-SH ¹⁰ *	MSLP03ER-SLPER-SH ¹⁰ *	MSLP03ER-SLPDR-SH ¹⁰ *	-	-
MSLP03FR-SLPFR-SN ¹⁰ *	MSLP03ER-SLPER-SN ¹⁰ *	MSLP03ER-SLPDR-SN ¹⁰ *	-	-
M12L03FR-12LFR-SH ¹⁰ *	M12L03ER-12LER-SH ¹⁰ *	M12L03ER-12LDR-SH ¹⁰ *	-	M12L03ER-12LER-PH ¹⁰ *
M12L03FR-12LFR-SN ¹⁰ *	M12L03ER-12LER-SN ¹⁰ *	M12L03ER-12LDR-SN ¹⁰ *	-	M12L03ER-SLPER-PN ¹⁰ *
MSLS03FR-SLSFR-SH ¹⁰ *	MSLS03ER-SLSER-SH ¹⁰ *	MSLS03ER-SLSDR-SH ¹⁰ *	-	MSLS03ER-SLSER-PH ¹⁰ *
MSLS03FR-SLSFR-SN ¹⁰ *	MSLS03ER-SLSER-SN ¹⁰ *	MSLS03ER-SLSDR-SN ¹⁰ *	-	MSLS03ER-SLSER-PN ¹⁰ *
SM12L03FR-12LFR-SH ¹⁰ *	SM12L03ER-12LER-SH ¹⁰ *	SM12L03ER-12LDR-SH ¹⁰ *	-	SM12L03ER-12LER-PH ¹⁰ *
SM12L03FR-12LFR-SN ¹⁰ *	SM12L03ER-12LER-SN ¹⁰ *	SM12L03ER-12LDR-SN ¹⁰ *	-	SM12L03ER-SLPER-PN ¹⁰ *
SMSLS03FR-SLSFR-SH ¹⁰ *	SMSLS03ER-SLSER-SH ¹⁰ *	SMSLS03ER-SLSDR-SH ¹⁰ *	-	SMSLS03ER-SLSER-PH ¹⁰ *
SMSLS03FR-SLSFR-SN ¹⁰ *	SMSLS03ER-SLSER-SN ¹⁰ *	SMSLS03ER-SLSDR-SN ¹⁰ *	-	SMSLS03ER-SLSER-PN ¹⁰ *

Number of Contacts	3 (2+FE)	3 (2+PE)
Coding	L	S
Rated Voltage (AC/DC)	63V	630V
Nominal current	16A	12A
Pin Assignment	Female Power / Male Ground	MM
MM : Male Connector Male Contact FF : Female Connector Female Contact PE⁽¹⁾ : Male Ground		

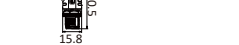
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾

  	All Plastic	UL2586, PVC Jacket	-	MSSP03 ML -SSP ML -SG 10 *
		UL20233, PUR Jacket	MSLP03 DL -SLP DL -SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLP03 DL -SLP DL -SN 10 *	MSSP03 ML -SSP ML -SN 10 *
	Metal Nut	UL2586, PVC Jacket	-	M12S03 ML -12S ML -SG 10 *
		UL20233, PUR Jacket	M12L03 DL -12L DL -SH 10 *	-
		UL20549, High Flex / Bending PUR	M12L03 DL -12L DL -SN 10 *	M12S03 ML -12S ML -SN 10 *
	Shielded	UL2586, PVC Jacket	-	MSSS03 ML -SSS ML -SG 10 *
		UL20233, PUR Jacket	MSLS03 DL -SLSD L -SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLS03 DL -SLSD L -SN 10 *	MSSS03 ML -SSS ML -SN 10 *
	Stainless	UL2586, PVC Jacket	-	SM12S03 ML -12S ML -SG 10 *
		UL20233, PUR Jacket	SM12L03 DL -12L DL -SH 10 *	-
		UL20549, High Flex / Bending PUR	SM12L03 DL -12L DL -SN 10 *	SM12S03 ML -12S ML -SN 10 *
	Stainless Shielded	UL2586, PVC Jacket	-	SMSSS03 ML -SSS ML -SG 10 *
		UL20233, PUR Jacket	SMSLS03 DL -SLSD L -SH 10 *	-
		UL20549, High Flex / Bending PUR	SMSLS03 DL -SLSD L -SN 10 *	SMSSS03 ML -SSS ML -SN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾

  	All Plastic	UL2586, PVC Jacket	-	MSSP03 ML -SSP MR -SG 10 *
		UL20233, PUR Jacket	MSLP03 DL -SLP DR -SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLP03 DL -SLP DR -SN 10 *	MSSP03 ML -SSP MR -SN 10 *
	Metal Nut	UL2586, PVC Jacket	-	M12S03 ML -12S MR -SG 10 *
		UL20233, PUR Jacket	M12L03 DL -12L DR -SH 10 *	-
		UL20549, High Flex / Bending PUR	M12L03 DL -12L DR -SN 10 *	M12S03 ML -12S MR -SN 10 *
	Shielded	UL2586, PVC Jacket	-	MSSS03 ML -SSS MR -SG 10 *
		UL20233, PUR Jacket	MSLS03 DL -SLSD R -SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLS03 DL -SLSD R -SN 10 *	MSSS03 ML -SSS MR -SN 10 *
	Stainless	UL2586, PVC Jacket	-	SM12S03 ML -12S MR -SG 10 *
		UL20233, PUR Jacket	SM12L03 DL -12L DR -SH 10 *	-
		UL20549, High Flex / Bending PUR	SM12L03 DL -12L DR -SN 10 *	SM12S03 ML -12S MR -SN 10 *
	Stainless Shielded	UL2586, PVC Jacket	-	SMSSS03 ML -SSS MR -SG 10 *
		UL20233, PUR Jacket	SMSLS03 DL -SLSD R -SH 10 *	-
		UL20549, High Flex / Bending PUR	SMSLS03 DL -SLSD R -SN 10 *	SMSSS03 ML -SSS MR -SN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾

  	All Plastic	UL2586, PVC Jacket	-	MSSP03 MR -SSP MR -SG 10 *
		UL20233, PUR Jacket	MSLP03 DR -SLP DR -SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLP03 DR -SLP DR -SN 10 *	MSSP03 MR -SSP MR -SN 10 *
	Metal Nut	UL2586, PVC Jacket	-	M12S03 MR -12S MR -SG 10 *
		UL20233, PUR Jacket	M12L03 DR -12L DR -SH 10 *	-
		UL20549, High Flex / Bending PUR	M12L03 DR -12L DR -SN 10 *	M12S03 MR -12S MR -SN 10 *
	Shielded	UL2586, PVC Jacket	-	MSSS03 MR -SSS MR -SG 10 *
		UL20233, PUR Jacket	MSLS03 DR -SLSD R -SH 10 *	-
		UL20549, High Flex / Bending PUR	MSLS03 DR -SLSD R -SN 10 *	MSSS03 MR -SSS MR -SN 10 *
	Stainless	UL2586, PVC Jacket	-	SM12S03 MR -12S MR -SG 10 *
		UL20233, PUR Jacket	SM12L03 DR -12L DR -SH 10 *	-
		UL20549, High Flex / Bending PUR	SM12L03 DR -12L DR -SN 10 *	SM12S03 MR -12S MR -SN 10 *
	Stainless Shielded	UL2586, PVC Jacket	-	SMSSS03 MR -SSS MR -SG 10 *
		UL20233, PUR Jacket	SMSLS03 DR -SLSD R -SH 10 *	-
		UL20549, High Flex / Bending PUR	SMSLS03 DR -SLSD R -SN 10 *	SMSSS03 MR -SSS MR -SN 10 *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3 (2+PE)				3
S				T
630V				63V
12A				12A
MF	FM	MPronto-12 (M/M)	FF	MM
				
MSSP03ML-SSPFL-SG 10 *	-	-	MSSP03FL-SSPFL-SG 10 *	-
-	-	-	-	MSTP03ML-STPML-SH 10 *
MSSP03ML-SSPFL-SN 10 *	-	-	MSSP03FL-SSPFL-SN 10 *	MSTP03ML-STPML-SN 10 *
M12S03ML-12SFL-SG 10 *	-	M12S03ML-12SML-PG 10 *	M12S03FL-12SFL-SG 10 *	-
-	-	-	-	M12T03ML-12TML-SH 10 *
M12S03ML-12SFL-SN 10 *	-	M12S03ML-SSPML-PN 10 *	M12S03FL-12SFL-SN 10 *	M12T03ML-12TML-SN 10 *
MSSS03ML-SSSFL-SG 10 *	-	MSSS03ML-SSSML-PG 10 *	MSSS03FL-SSSFL-SG 10 *	-
-	-	-	-	MSTS03ML-STSMML-SH 10 *
MSSS03ML-SSSFL-SN 10 *	-	MSSS03ML-SSSML-PN 10 *	MSSS03FL-SSSFL-SN 10 *	MSTS03ML-STSMML-SN 10 *
SM12S03ML-12SFL-SG 10 *	-	SM12S03ML-12SML-PG 10 *	SM12S03FL-12SFL-SG 10 *	-
-	-	-	-	SM12T03ML-12TML-SH 10 *
SM12S03ML-12SFL-SN 10 *	-	SM12S03ML-SSPML-PN 10 *	SM12S03FL-12SFL-SN 10 *	SM12T03ML-12TML-SN 10 *
SMSSS03ML-SSSFL-SG 10 *	-	SMSSS03ML-SSSML-PG 10 *	SMSSS03FL-SSSFL-SG 10 *	-
-	-	-	-	SMSTS03ML-STSMML-SH 10 *
SMSSS03ML-SSSFL-SN 10 *	-	SMSSS03ML-SSSML-PN 10 *	SMSSS03FL-SSSFL-SN 10 *	SMSTS03ML-STSMML-SN 10 *
MSSP03ML-SSPFR-SG 10 *	MSSP03FL-SSPFR-SG 10 *	-	MSSP03FL-SSPFR-SG 10 *	-
-	-	-	-	MSTP03ML-STPMR-SH 10 *
MSSP03ML-SSPFR-SN 10 *	MSSP03FL-SSPFR-SN 10 *	-	MSSP03FL-SSPFR-SN 10 *	MSTP03ML-STPMR-SN 10 *
M12S03ML-12SFR-SG 10 *	M12S03FL-12SMR-SG 10 *	M12S03ML-12SMR-PG 10 *	M12S03FL-12SFR-SG 10 *	-
-	-	-	-	M12T03ML-12TMR-SH 10 *
M12S03ML-12SFR-SN 10 *	M12S03FL-12SMR-SN 10 *	M12S03ML-SSPMR-PN 10 *	M12S03FL-12SFR-SN 10 *	M12T03ML-12TMR-SN 10 *
MSSS03ML-SSSFR-SG 10 *	MSSS03FL-SSSMR-SG 10 *	MSSS03ML-SSSMR-PG 10 *	MSSS03FL-SSSFR-SG 10 *	-
-	-	-	-	MSTS03ML-STSMR-SH 10 *
MSSS03ML-SSSFR-SN 10 *	MSSS03FL-SSSMR-SN 10 *	MSSS03ML-SSSMR-PN 10 *	MSSS03FL-SSSFR-SN 10 *	MSTS03ML-STSMR-SN 10 *
SM12S03ML-12SFR-SG 10 *	SM12S03FL-12SMR-SG 10 *	SM12S03ML-12SMR-PG 10 *	SM12S03FL-12SFR-SG 10 *	-
-	-	-	-	SM12T03ML-12TMR-SH 10 *
SM12S03ML-12SFR-SN 10 *	SM12S03FL-12SMR-SN 10 *	SM12S03ML-SSPMR-PN 10 *	SM12S03FL-12SFR-SN 10 *	SM12T03ML-12TMR-SN 10 *
SMSSS03ML-SSSFR-SG 10 *	SMSSS03FL-SSSMR-SG 10 *	SMSSS03ML-SSSMR-PG 10 *	SMSSS03FL-SSSFR-SG 10 *	-
-	-	-	-	SMSTS03ML-STSMR-SH 10 *
SMSSS03ML-SSSFR-SN 10 *	SMSSS03FL-SSSMR-SN 10 *	SMSSS03ML-SSSMR-PN 10 *	SMSSS03FL-SSSFR-SN 10 *	SMSTS03ML-STSMR-SN 10 *
MSSP03MR-SSPFR-SG 10 *	-	-	MSSP03FR-SSPFR-SG 10 *	-
-	-	-	-	MSTP03MR-STPMR-SH 10 *
MSSP03MR-SSPFR-SN 10 *	-	-	MSSP03FR-SSPFR-SN 10 *	MSTP03MR-STPMR-SN 10 *
M12S03MR-12SFR-SG 10 *	-	M12S03MR-12SMR-PG 10 *	M12S03FR-12SFR-SG 10 *	-
-	-	-	-	M12T03MR-12TMR-SH 10 *
M12S03MR-12SFR-SN 10 *	-	M12S03MR-SSPMR-PN 10 *	M12S03FR-12SFR-SN 10 *	M12T03MR-12TMR-SN 10 *
MSSS03MR-SSSFR-SG 10 *	-	MSSS03MR-SSSMR-PG 10 *	MSSS03FR-SSSFR-SG 10 *	-
-	-	-	-	MSTS03MR-STSMR-SH 10 *
MSSS03MR-SSSFR-SN 10 *	-	MSSS03MR-SSSMR-PN 10 *	MSSS03FR-SSSFR-SN 10 *	MSTS03MR-STSMR-SN 10 *
SM12S03MR-12SFR-SG 10 *	-	SM12S03MR-12SMR-PG 10 *	SM12S03FR-12SFR-SG 10 *	-
-	-	-	-	SM12T03MR-12TMR-SH 10 *
SM12S03MR-12SFR-SN 10 *	-	SM12S03MR-SSPMR-PN 10 *	SM12S03FR-12SFR-SN 10 *	SM12T03MR-12TMR-SN 10 *
SMSSS03MR-SSSFR-SG 10 *	-	SMSSS03MR-SSSMR-PG 10 *	SMSSS03FR-SSSFR-SG 10 *	-
-	-	-	-	SMSTS03MR-STSMR-SH 10 *
SMSSS03MR-SSSFR-SN 10 *	-	SMSSS03MR-SSSMR-PN 10 *	SMSSS03FR-SSSFR-SN 10 *	SMSTS03MR-STSMR-SN 10 *

Number of Contacts	3
Coding	T
Rated Voltage (AC/DC)	63V
Nominal current	12A
Pin Assignment	MF FM
MM : Male Connector Male Contact FF : Female Connector Female Contact PE⁽¹⁾ : Male Ground PE⁽²⁾ : Female Ground	

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

	All Plastic	UL20233, PUR Jacket	MSTP03ML-STPFL-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSTP03ML-STPFL-SN ⑩ *	-
	Metal Nut	UL20233, PUR Jacket	M12T03ML-12TFL-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12T03ML-12TFL-SN ⑩ *	-
	Shielded	UL20233, PUR Jacket	MSTS03ML-STSF-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSTS03ML-STSF-SN ⑩ *	-
	Stainless	UL20233, PUR Jacket	SM12T03ML-12TFL-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12T03ML-12TFL-SN ⑩ *	-
	Stainless Shielded	UL20233, PUR Jacket	SMSTS03ML-STSF-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSTS03ML-STSF-SN ⑩ *	-

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

	All Plastic	UL20233, PUR Jacket	MSTP03ML-STPFR-SH ⑩ *	MSTP03FL-STPFR-SH ⑩ *
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSTP03ML-STPFR-SN ⑩ *	MSTP03FL-STPFR-SN ⑩ *
	Metal Nut	UL20233, PUR Jacket	M12T03ML-12TFR-SH ⑩ *	M12T03FL-12TFR-SH ⑩ *
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12T03ML-12TFR-SN ⑩ *	M12T03FL-12TFR-SN ⑩ *
	Shielded	UL20233, PUR Jacket	MSTS03ML-STSFR-SH ⑩ *	MSTS03FL-STSMR-SH ⑩ *
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSTS03ML-STSFR-SN ⑩ *	MSTS03FL-STSMR-SN ⑩ *
	Stainless	UL20233, PUR Jacket	SM12T03ML-12TFR-SH ⑩ *	SM12T03FL-12TFR-SH ⑩ *
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12T03ML-12TFR-SN ⑩ *	SM12T03FL-12TFR-SN ⑩ *
	Stainless Shielded	UL20233, PUR Jacket	SMSTS03ML-STSFR-SH ⑩ *	SMSTS03FL-STSMR-SH ⑩ *
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSTS03ML-STSFR-SN ⑩ *	SMSTS03FL-STSMR-SN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

	All Plastic	UL20233, PUR Jacket	MSTP03MR-STPFR-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSTP03MR-STPFR-SN ⑩ *	-
	Metal Nut	UL20233, PUR Jacket	M12T03MR-12TFR-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	M12T03MR-12TFR-SN ⑩ *	-
	Shielded	UL20233, PUR Jacket	MSTS03MR-STSFR-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	MSTS03MR-STSFR-SN ⑩ *	-
	Stainless	UL20233, PUR Jacket	SM12T03MR-12TFR-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SM12T03MR-12TFR-SN ⑩ *	-
	Stainless Shielded	UL20233, PUR Jacket	SMSTS03MR-STSFR-SH ⑩ *	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	SMSTS03MR-STSFR-SN ⑩ *	-

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

3		4 (3+PE)		
T		K		
63V		630V		
12A		16A		
MPronto-12 (M/M)	FF	MM	MF	FM
				
-	MSTP03FL-STPFL-SH 10 *	-	-	-
-	-	MSKP04EL-SKPEL-SS 10 *	MSKP04EL-SKPDL-SS 10 *	-
-	MSTP03FL-STPFL-SN 10 *	MSKP04EL-SKPEL-SN 10 *	MSKP04EL-SKPDL-SN 10 *	-
M12T03ML-12TML-PH 10 *	M12T03FL-12TFL-SH 10 *	-	-	-
-	-	M12K04EL-12KEL-SS 10 *	M12K04EL-12KDL-SS 10 *	-
M12T03ML-STPML-PN 10 *	M12T03FL-12TFL-SN 10 *	M12K04EL-12KEL-SN 10 *	M12K04EL-12KDL-SN 10 *	-
MSTS03ML-STSMPL-PH 10 *	MSTS03FL-STSF-SH 10 *	-	-	-
-	-	MSKS04EL-SKSEL-SS 10 *	MSKS04EL-SKSDL-SS 10 *	-
MSTS03ML-STSMPL-PN 10 *	MSTS03FL-STSF-SN 10 *	MSKS04EL-SKSEL-SN 10 *	MSKS04EL-SKSDL-SN 10 *	-
SM12T03ML-12TML-PH 10 *	SM12T03FL-12TFL-SH 10 *	-	-	-
-	-	SM12K04EL-12KEL-SS 10 *	SM12K04EL-12KDL-SS 10 *	-
SM12T03ML-STPML-PN 10 *	SM12T03FL-12TFL-SN 10 *	SM12K04EL-12KEL-SN 10 *	SM12K04EL-12KDL-SN 10 *	-
SMSTS03ML-STSMPL-PH 10 *	SMSTS03FL-STSF-SH 10 *	-	-	-
-	-	SMSKS04EL-SKSEL-SS 10 *	SMSKS04EL-SKSDL-SS 10 *	-
SMSTS03ML-STSMPL-PN 10 *	SMSTS03FL-STSF-SN 10 *	SMSKS04EL-SKSEL-SN 10 *	SMSKS04EL-SKSDL-SN 10 *	-
-	MSTP03FL-STPFR-SH 10 *	-	-	-
-	-	MSKP04EL-SKPER-SS 10 *	MSKP04EL-SKPDR-SS 10 *	MSKP04DL-SKPER-SS 10 *
-	MSTP03FL-STPFR-SN 10 *	MSKP04EL-SKPER-SN 10 *	MSKP04EL-SKPDR-SN 10 *	MSKP04DL-SKPER-SN 10 *
M12T03ML-12TMR-PH 10 *	M12T03FL-12TFR-SH 10 *	-	-	-
-	-	M12K04EL-12KER-SS 10 *	M12K04EL-12KDR-SS 10 *	M12K04DL-12KER-SS 10 *
M12T03ML-STPMR-PN 10 *	M12T03FL-12TFR-SN 10 *	M12K04EL-12KER-SN 10 *	M12K04EL-12KDR-SN 10 *	M12K04DL-12KER-SN 10 *
MSTS03ML-STSMR-PH 10 *	MSTS03FL-STSFR-SH 10 *	-	-	-
-	-	MSKS04EL-SKSER-SS 10 *	MSKS04EL-SKSDR-SS 10 *	MSKS04DL-SKSER-SS 10 *
MSTS03ML-STSMR-PN 10 *	MSTS03FL-STSFR-SN 10 *	MSKS04EL-SKSER-SN 10 *	MSKS04EL-SKSDR-SN 10 *	MSKS04DL-SKSER-SN 10 *
SM12T03ML-12TMR-PH 10 *	SM12T03FL-12TFR-SH 10 *	-	-	-
-	-	SM12K04EL-12KER-SS 10 *	SM12K04EL-12KDR-SS 10 *	SM12K04DL-12KER-SS 10 *
SM12T03ML-STPMR-PN 10 *	SM12T03FL-12TFR-SN 10 *	SM12K04EL-12KER-SN 10 *	SM12K04EL-12KDR-SN 10 *	SM12K04DL-12KER-SN 10 *
SMSTS03ML-STSMR-PH 10 *	SMSTS03FL-STSFR-SH 10 *	-	-	-
-	-	SMSKS04EL-SKSER-SS 10 *	SMSKS04EL-SKSDR-SS 10 *	SMSKS04DL-SKSER-SS 10 *
SMSTS03ML-STSMR-PN 10 *	SMSTS03FL-STSFR-SN 10 *	SMSKS04EL-SKSER-SN 10 *	SMSKS04EL-SKSDR-SN 10 *	SMSKS04DL-SKSER-SN 10 *
-	MSTP03FR-STPFR-SH 10 *	-	-	-
-	-	MSKP04ER-SKPER-SS 10 *	MSKP04ER-SKPDR-SS 10 *	-
-	MSTP03FR-STPFR-SN 10 *	MSKP04ER-SKPER-SN 10 *	MSKP04ER-SKPDR-SN 10 *	-
M12T03MR-12TMR-PH 10 *	M12T03FR-12TFR-SH 10 *	-	-	-
-	-	M12K04ER-12KER-SS 10 *	M12K04ER-12KDR-SS 10 *	-
M12T03MR-STPMR-PN 10 *	M12T03FR-12TFR-SN 10 *	M12K04ER-12KER-SN 10 *	M12K04ER-12KDR-SN 10 *	-
MSTS03MR-STSMR-PH 10 *	MSTS03FR-STSFR-SH 10 *	-	-	-
-	-	MSKS04ER-SKSER-SS 10 *	MSKS04ER-SKSDR-SS 10 *	-
MSTS03MR-STSMR-PN 10 *	MSTS03FR-STSFR-SN 10 *	MSKS04ER-SKSER-SN 10 *	MSKS04ER-SKSDR-SN 10 *	-
SM12T03MR-12TMR-PH 10 *	SM12T03FR-12TFR-SH 10 *	-	-	-
-	-	SM12K04ER-12KER-SS 10 *	SM12K04ER-12KDR-SS 10 *	-
SM12T03MR-STPMR-PN 10 *	SM12T03FR-12TFR-SN 10 *	SM12K04ER-12KER-SN 10 *	SM12K04ER-12KDR-SN 10 *	-
SMSTS03MR-STSMR-PH 10 *	SMSTS03FR-STSFR-SH 10 *	-	-	-
-	-	SMSKS04ER-SKSER-SS 10 *	SMSKS04ER-SKSDR-SS 10 *	-
SMSTS03MR-STSMR-PN 10 *	SMSTS03FR-STSFR-SN 10 *	SMSKS04ER-SKSER-SN 10 *	SMSKS04ER-SKSDR-SN 10 *	-

Number of Contacts	4 (3+PE)	
Coding	K	
Rated Voltage (AC/DC)	630V	
Nominal current	16A	
Pin Assignment	MPronto-12 (M/M)	Female Power / Male Ground
MM : Male Connector Male Contact FF : Female Connector Female Contact PE⁽¹⁾ : Male Ground PE⁽²⁾ : Female Ground		
		

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

K code  MM  FF M code  MM  FF  MF	All Plastic	UL20234, PUR Jacket	-	MSKP04 DL -SK PDL -SS 10 *
		UL20549, High Flex / Bending PUR	-	MSKP04 DL -SK PDL -SN 10 *
	Metal Nut	UL20234, PUR Jacket	M12K04EL-SKPEL-PS 10 *	M12K04 DL -12K DL -SS 10 *
		UL20549, High Flex / Bending PUR	M12K04EL-SKPEL-PN 10 *	M12K04 DL -12K DL -SN 10 *
	Shielded	UL20234, PUR Jacket	MSKS04EL-SKSEL-PS 10 *	MSKS04 DL -SK SDL -SS 10 *
		UL20549, High Flex / Bending PUR	MSKS04EL-SKSEL-PN 10 *	MSKS04 DL -SK SDL -SN 10 *
	Stainless	UL20234, PUR Jacket	SM12K04EL-SKPEL-PS 10 *	SM12K04 DL -12K DL -SS 10 *
		UL20549, High Flex / Bending PUR	SM12K04EL-SKPEL-PN 10 *	SM12K04 DL -12K DL -SN 10 *
	Stainless	UL20234, PUR Jacket	SMSKS04EL-SKSEL-PS 10 *	SMSKS04 DL -SK SDL -SS 10 *
	Shielded	UL20549, High Flex / Bending PUR	SMSKS04EL-SKSEL-PN 10 *	SMSKS04 DL -SK SDL -SN 10 *

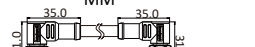
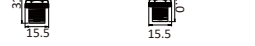
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

K code  MM  FF M code  MM  FF  MF  FM	All Plastic	UL20234, PUR Jacket	-	MSKP04 DL -SK PDR -SS 10 *
		UL20549, High Flex / Bending PUR	-	MSKP04 DL -SK PDR -SN 10 *
	Metal Nut	UL20234, PUR Jacket	M12K04EL-12KER-PS 10 *	M12K04 DL -12K DR -SS 10 *
		UL20549, High Flex / Bending PUR	M12K04EL-SKPER-PN 10 *	M12K04 DL -12K DR -SN 10 *
	Shielded	UL20234, PUR Jacket	MSKS04EL-SKSER-PS 10 *	MSKS04 DL -SK SDR -SS 10 *
		UL20549, High Flex / Bending PUR	MSKS04EL-SKSER-PN 10 *	MSKS04 DL -SK SDR -SN 10 *
	Stainless	UL20234, PUR Jacket	SM12K04EL-12KER-PS 10 *	SM12K04 DL -12K DR -SS 10 *
		UL20549, High Flex / Bending PUR	SM12K04EL-SKPER-PN 10 *	SM12K04 DL -12K DR -SN 10 *
	Stainless	UL20234, PUR Jacket	SMSKS04EL-SKSER-PS 10 *	SMSKS04 DL -SK SDR -SS 10 *
	Shielded	UL20549, High Flex / Bending PUR	SMSKS04EL-SKSER-PN 10 *	SMSKS04 DL -SK SDR -SN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

K code  MM  FF M code  MM  FF  MF  FM	All Plastic	UL20234, PUR Jacket	-	MSKP04 DR -SK PDR -SS 10 *
		UL20549, High Flex / Bending PUR	-	MSKP04 DR -SK PDR -SN 10 *
	Metal Nut	UL20234, PUR Jacket	M12K04ER-12KER-PS 10 *	M12K04 DR -12K DR -SS 10 *
		UL20549, High Flex / Bending PUR	M12K04ER-SKPER-PN 10 *	M12K04 DR -12K DR -SN 10 *
	Shielded	UL20234, PUR Jacket	MSKS04ER-SKSER-PS 10 *	MSKS04 DR -SK SDR -SS 10 *
		UL20549, High Flex / Bending PUR	MSKS04ER-SKSER-PN 10 *	MSKS04 DR -SK SDR -SN 10 *
	Stainless	UL20234, PUR Jacket	SM12K04ER-SKPER-PS 10 *	SM12K04 DR -12K DR -SS 10 *
		UL20549, High Flex / Bending PUR	SM12K04ER-SKPER-PN 10 *	SM12K04 DR -12K DR -SN 10 *
	Stainless	UL20234, PUR Jacket	SMSKS04ER-SKSER-PS 10 *	SMSKS04 DR -SK SDR -SS 10 *
	Shielded	UL20549, High Flex / Bending PUR	SMSKS04ER-SKSER-PN 10 *	SMSKS04 DR -SK SDR -SN 10 *

* Upon Request

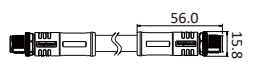
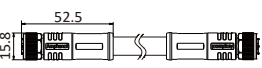
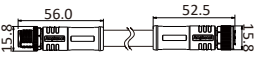
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4 (3+PE)				
M				
630V				
8A				
Male Power / Female Ground	MF	FM	MPronto-12 (M/M)	Female Power / Male Ground
				
MSMP04EL-SMPEL-SS 	MSMP04EL-SMPDL-SS 	-	-	MSMP04DL-SMPDL-SS 
MSMP04EL-SMPEL-SN 	MSMP04EL-SMPDL-SN 	-	-	MSMP04DL-SMPDL-SN 
M12M04EL-12MEL-SS 	M12M04EL-12MDL-SS 	-	M12M04EL-SMPEL-PS 	M12M04DL-12MDL-SS 
M12M04EL-12MEL-SN 	M12M04EL-12MDL-SN 	-	M12M04EL-SMPEL-PN 	M12M04DL-12MDL-SN 
MSMS04EL-SMSEL-SS 	MSMS04EL-SMSDL-SS 	-	MSMS04EL-SMSEL-PS 	MSMS04DL-SMSDL-SS 
MSMS04EL-SMSEL-SN 	MSMS04EL-SMSDL-SN 	-	MSMS04EL-SMSEL-PN 	MSMS04DL-SMSDL-SN 
SM12M04EL-12MEL-SS 	SM12M04EL-12MDL-SS 	-	SM12M04EL-SMPEL-PS 	SM12M04DL-12MDL-SS 
SM12M04EL-12MEL-SN 	SM12M04EL-12MDL-SN 	-	SM12M04EL-SMPEL-PN 	SM12M04DL-12MDL-SN 
SMSMS04EL-SMSEL-SS 	SMSMS04EL-SMSDL-SS 	-	SMSMS04EL-SMSEL-PS 	SMSMS04DL-SMSDL-SS 
SMSMS04EL-SMSEL-SN 	SMSMS04EL-SMSDL-SN 	-	SMSMS04EL-SMSEL-PN 	SMSMS04DL-SMSDL-SN 
MSMP04EL-SMPER-SS 	MSMP04EL-SMPDR-SS 	MSMP04DL-SMPER-SS 	-	MSMP04DL-SMPDR-SS 
MSMP04EL-SMPER-SN 	MSMP04EL-SMPDR-SN 	MSMP04DL-SMPER-SN 	-	MSMP04DL-SMPDR-SN 
M12M04EL-12MER-SS 	M12M04EL-12MDR-SS 	M12M04DL-12MER-SS 	M12M04EL-12MER-PS 	M12M04DL-12MDR-SS 
M12M04EL-12MER-SN 	M12M04EL-12MDR-SN 	M12M04DL-12MER-SN 	M12M04EL-SMPER-PN 	M12M04DL-12MDR-SN 
M12M04EL-12MER-SS 	MSMS04EL-SMSDR-SS 	MSMS04DL-SMSER-SS 	M12M04EL-12MER-PS 	M12M04DL-12MDR-SS 
MSMS04EL-SMSER-SN 	MSMS04EL-SMSDR-SN 	MSMS04DL-SMSER-SN 	MSMS04EL-SMSER-PN 	MSMS04DL-SMSDR-SN 
SM12M04EL-12MER-SS 	SM12M04EL-12MDR-SS 	SM12M04DL-12MER-SS 	SM12M04EL-12MER-PS 	SM12M04DL-12MDR-SS 
SM12M04EL-12MER-SN 	SM12M04EL-12MDR-SN 	SM12M04DL-12MER-SN 	SM12M04EL-SMPER-PN 	SM12M04DL-12MDR-SN 
SMSMS04EL-SMSER-SS 	SMSMS04EL-SMSDR-SS 	SMSMS04DL-SMSER-SS 	SMSMS04EL-SMSER-PS 	SMSMS04DL-SMSDR-SS 
SMSMS04EL-SMSER-SN 	SMSMS04EL-SMSDR-SN 	SMSMS04DL-SMSER-SN 	SMSMS04EL-SMSER-PN 	SMSMS04DL-SMSDR-SN 
MSMP04ER-SMPER-SS 	MSMP04ER-SMPDR-SS 	-	-	MSMP04DR-SMPDR-SS 
MSMP04ER-SMPER-SN 	MSMP04ER-SMPDR-SN 	-	-	MSMP04DR-SMPDR-SN 
M12M04ER-12MER-SS 	M12M04ER-12MDR-SS 	-	M12M04ER-12MER-PS 	M12M04DR-12MDR-SS 
M12M04ER-12MER-SN 	M12M04ER-12MDR-SN 	-	M12M04ER-SMPER-PN 	M12M04DR-12MDR-SN 
MSMS04ER-SMSER-SS 	MSMS04ER-SMSDR-SS 	-	MSMS04ER-SMSER-PS 	MSMS04DR-SMSDR-SS 
MSMS04ER-SMSER-SN 	MSMS04ER-SMSDR-SN 	-	MSMS04ER-SMSER-PN 	MSMS04DR-SMSDR-SN 
SM12M04ER-12MER-SS 	SM12M04ER-12MDR-SS 	-	SM12M04ER-SMPER-PS 	SM12M04DR-12MDR-SS 
SM12M04ER-12MER-SN 	SM12M04ER-12MDR-SN 	-	SM12M04ER-SMPER-PN 	SM12M04DR-12MDR-SN 
SMSMS04ER-SMSER-SS 	SMSMS04ER-SMSDR-SS 	-	SMSMS04ER-SMSER-PS 	SMSMS04DR-SMSDR-SS 
SMSMS04ER-SMSER-SN 	SMSMS04ER-SMSDR-SN 	-	SMSMS04ER-SMSER-PN 	SMSMS04DR-SMSDR-SN 

Number of Contacts	4	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	16A	
Pin Assignment	MM	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact PE ⁽¹⁾ : Male Ground PE ⁽²⁾ : Female Ground		

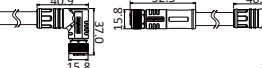
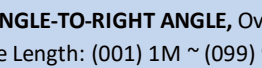
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF, (D) FF+PE⁽¹⁾, (E) MM+PE⁽²⁾

MM		All Plastic	UL20233, PUR Jacket	MSLP04ML-SLPML-SH ⑩ *	MSLP04ML-SLPFL-SH ⑩ *
			UL20549, High Flex / Bending PUR	MSLP04ML-SLPML-SN ⑩ *	MSLP04ML-SLPFL-SN ⑩ *
FF		Metal Nut	UL20233, PUR Jacket	M12L04ML-12LML-SH ⑩ *	M12L04ML-12LFL-SH ⑩ *
			UL20549, High Flex / Bending PUR	M12L04ML-12LML-SN ⑩ *	M12L04ML-12LFL-SN ⑩ *
MF		Shielded	UL20233, PUR Jacket	MSLS04ML-SLSML-SH ⑩ *	MSLS04ML-SLSFL-SH ⑩ *
			UL20549, High Flex / Bending PUR	MSLS04ML-SLSML-SN ⑩ *	MSLS04ML-SLSFL-SN ⑩ *
		Stainless	UL20233, PUR Jacket	SM12L04ML-12LML-SH ⑩ *	SM12L04ML-12LFL-SH ⑩ *
			UL20549, High Flex / Bending PUR	SM12L04ML-12LML-SN ⑩ *	SM12L04ML-12LFL-SN ⑩ *
		Stainless	UL20233, PUR Jacket	SMSLS04ML-SLSML-SH ⑩ *	SMSLS04ML-SLSFL-SH ⑩ *
		Shielded	UL20549, High Flex / Bending PUR	SMSLS04ML-SLSML-SN ⑩ *	SMSLS04ML-SLSFL-SN ⑩ *

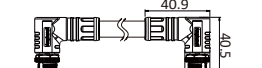
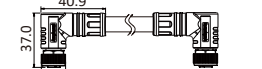
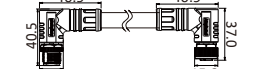
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF, (D) FF+PE⁽¹⁾, (E) MM+PE⁽²⁾

MM		All Plastic	UL20233, PUR Jacket	MSLP04ML-SLPMR-SH ⑩ *	MSLP04ML-SLPFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	MSLP04ML-SLPMR-SN ⑩ *	MSLP04ML-SLPFR-SN ⑩ *
FF		Metal Nut	UL20233, PUR Jacket	M12L04ML-12LMR-SH ⑩ *	M12L04ML-12LFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	M12L04ML-12LMR-SN ⑩ *	M12L04ML-12LFR-SN ⑩ *
MF		Shielded	UL20233, PUR Jacket	MSLS04ML-SLSMR-SH ⑩ *	MSLS04ML-SLSFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	MSLS04ML-SLSMR-SN ⑩ *	MSLS04ML-SLSFR-SN ⑩ *
FM		Stainless	UL20233, PUR Jacket	SM12L04ML-12LMR-SH ⑩ *	SM12L04ML-12LFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	SM12L04ML-12LMR-SN ⑩ *	SM12L04ML-12LFR-SN ⑩ *
		Stainless	UL20233, PUR Jacket	SMSLS04ML-SLSMR-SH ⑩ *	SMSLS04ML-SLSFR-SH ⑩ *
		Shielded	UL20549, High Flex / Bending PUR	SMSLS04ML-SLSMR-SN ⑩ *	SMSLS04ML-SLSFR-SN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: (M) MM, (F) FF, (D) FF+PE⁽¹⁾, (E) MM+PE⁽²⁾

MM		All Plastic	UL20233, PUR Jacket	MSLP04MR-SLPMR-SH ⑩ *	MSLP04MR-SLPFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	MSLP04MR-SLPMR-SN ⑩ *	MSLP04MR-SLPFR-SN ⑩ *
FF		Metal Nut	UL20233, PUR Jacket	M12L04MR-12LMR-SH ⑩ *	M12L04MR-12LFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	M12L04MR-12LMR-SN ⑩ *	M12L04MR-12LFR-SN ⑩ *
MF		Shielded	UL20233, PUR Jacket	MSLS04MR-SLSMR-SH ⑩ *	MSLS04MR-SLSFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	MSLS04MR-SLSMR-SN ⑩ *	MSLS04MR-SLSFR-SN ⑩ *
		Stainless	UL20233, PUR Jacket	SM12L04MR-12LMR-SH ⑩ *	SM12L04MR-12LFR-SH ⑩ *
			UL20549, High Flex / Bending PUR	SM12L04MR-12LMR-SN ⑩ *	SM12L04MR-12LFR-SN ⑩ *
		Stainless	UL20233, PUR Jacket	SMSLS04MR-SLSMR-SH ⑩ *	SMSLS04MR-SLSFR-SH ⑩ *
		Shielded	UL20549, High Flex / Bending PUR	SMSLS04MR-SLSMR-SN ⑩ *	SMSLS04MR-SLSFR-SN ⑩ *

* Upon Request

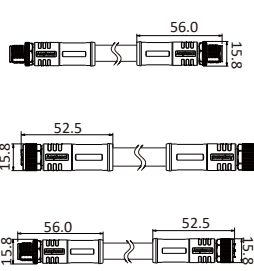
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4			4 (3+FE)	
L			L	
63V			63V	
16A			16A	
FM	MPronto-12 (M/M)	FF	Male Power / Female Ground	MF
				
-	-	MSLP04FL-SLPFL-SH ¹⁰ *	MSLP04EL-SLPEL-SH ¹⁰ *	MSLP04EL-SLPDL-SH ¹⁰ *
-	-	MSLP04FL-SLPFL-SN ¹⁰ *	MSLP04EL-SLPEL-SN ¹⁰ *	MSLP04EL-SLPDL-SN ¹⁰ *
-	M12L04ML-12LML-PH ¹⁰ *	M12L04FL-12LFL-SH ¹⁰ *	M12L04EL-12LEL-SH ¹⁰ *	M12L04EL-12LDL-SH ¹⁰ *
-	M12L04ML-SLPML-PN ¹⁰ *	M12L04FL-12LFL-SN ¹⁰ *	M12L04EL-12LEL-SN ¹⁰ *	M12L04EL-12LDL-SN ¹⁰ *
-	MSLS04ML-SLSML-PH ¹⁰ *	MSLS04FL-SLSFL-SH ¹⁰ *	MSLS04EL-SLSEL-SH ¹⁰ *	MSLS04EL-SLSDL-SH ¹⁰ *
-	MSLS04ML-SLSML-PN ¹⁰ *	MSLS04FL-SLSFL-SN ¹⁰ *	MSLS04EL-SLSEL-SN ¹⁰ *	MSLS04EL-SLSDL-SN ¹⁰ *
-	SM12L04ML-12LML-PH ¹⁰ *	SM12L04FL-12LFL-SH ¹⁰ *	SM12L04EL-12LEL-SH ¹⁰ *	SM12L04EL-12LDL-SH ¹⁰ *
-	SM12L04ML-SLPML-P ¹⁰ *	SM12L04FL-12LFL-SN ¹⁰ *	SM12L04EL-12LEL-SN ¹⁰ *	SM12L04EL-12LDL-SN ¹⁰ *
-	SMSLS04ML-SLSML-PH ¹⁰ *	SMSLS04FL-SLSFL-SH ¹⁰ *	SMSLS04EL-SLSEL-SH ¹⁰ *	SMSLS04EL-SLSDL-SH ¹⁰ *
-	SMSLS04ML-SLSML-PN ¹⁰ *	SMSLS04FL-SLSFL-SN ¹⁰ *	SMSLS04EL-SLSEL-SN ¹⁰ *	SMSLS04EL-SLSDL-SN ¹⁰ *
MSLP04FL-SLPMR-SH ¹⁰ *	-	MSLP04FL-SLPFR-SH ¹⁰ *	MSLP04EL-SLPER-SH ¹⁰ *	MSLP04EL-SLPDR-SH ¹⁰ *
MSLP04FL-SLPMR-SN ¹⁰ *	-	MSLP04FL-SLPFR-SN ¹⁰ *	MSLP04EL-SLPER-SN ¹⁰ *	MSLP04EL-SLPDR-SN ¹⁰ *
M12L04FL-12LMR-SH ¹⁰ *	M12L04ML-12LMR-PH ¹⁰ *	M12L04FL-12LFR-SH ¹⁰ *	M12L04EL-12LER-SH ¹⁰ *	M12L04EL-12LDR-SH ¹⁰ *
M12L04FL-12LMR-SN ¹⁰ *	M12L04ML-SLPMR-PN ¹⁰ *	M12L04FL-12LFR-SN ¹⁰ *	M12L04EL-12LER-SN ¹⁰ *	M12L04EL-12LDR-SN ¹⁰ *
MSLS04FL-SLSMR-SH ¹⁰ *	MSLS04ML-SLSMR-PH ¹⁰ *	MSLS04FL-SLSFR-SH ¹⁰ *	MSLS04EL-SLSER-SH ¹⁰ *	MSLS04EL-SLSDR-SH ¹⁰ *
MSLS04FL-SLSMR-SN ¹⁰ *	MSLS04ML-SLSMR-PN ¹⁰ *	MSLS04FL-SLSFR-SN ¹⁰ *	MSLS04EL-SLSER-SN ¹⁰ *	MSLS04EL-SLSDR-SN ¹⁰ *
SM12L04FL-12LMR-SH ¹⁰ *	SM12L04ML-12LMR-PH ¹⁰ *	SM12L04FL-12LFR-SH ¹⁰ *	SM12L04EL-12LER-SH ¹⁰ *	SM12L04EL-12LDR-SH ¹⁰ *
SM12L04FL-12LMR-SN ¹⁰ *	SM12L04ML-SLPMR-PN ¹⁰ *	SM12L04FL-12LFR-SN ¹⁰ *	SM12L04EL-12LER-SN ¹⁰ *	SM12L04EL-12LDR-SN ¹⁰ *
SMSLS04FL-SLSMR-SH ¹⁰ *	SMSLS04ML-SLSMR-PH ¹⁰ *	SMSLS04FL-SLSFR-SH ¹⁰ *	SMSLS04EL-SLSER-SH ¹⁰ *	SMSLS04EL-SLSDR-SH ¹⁰ *
SMSLS04FL-SLSMR-SN ¹⁰ *	SMSLS04ML-SLSMR-PN ¹⁰ *	SMSLS04FL-SLSFR-SN ¹⁰ *	SMSLS04EL-SLSER-SN ¹⁰ *	SMSLS04EL-SLSDR-SN ¹⁰ *
-	-	MSLP04FR-SLPFR-SH ¹⁰ *	MSLP04ER-SLPER-SH ¹⁰ *	MSLP04ER-SLPDR-SH ¹⁰ *
-	-	MSLP04FR-SLPFR-SN ¹⁰ *	MSLP04ER-SLPER-SN ¹⁰ *	MSLP04ER-SLPDR-SN ¹⁰ *
-	M12L04MR-12LMR-PH ¹⁰ *	M12L04FR-12LFR-SH ¹⁰ *	M12L04ER-12LER-SH ¹⁰ *	M12L04ER-12LDR-SH ¹⁰ *
-	M12L04MR-SLPMR-PN ¹⁰ *	M12L04FR-12LFR-SN ¹⁰ *	M12L04ER-12LER-SN ¹⁰ *	M12L04ER-12LDR-SN ¹⁰ *
-	MSLS04MR-SLSMR-PH ¹⁰ *	MSLS04FR-SLSFR-SH ¹⁰ *	MSLS04ER-SLSER-SH ¹⁰ *	MSLS04ER-SLSDR-SH ¹⁰ *
-	MSLS04MR-SLSMR-PN ¹⁰ *	MSLS04FR-SLSFR-SN ¹⁰ *	MSLS04ER-SLSER-SN ¹⁰ *	MSLS04ER-SLSDR-SN ¹⁰ *
-	SM12L04MR-12LMR-PH ¹⁰ *	SM12L04FR-12LFR-SH ¹⁰ *	SM12L04ER-12LER-SH ¹⁰ *	SM12L04ER-12LDR-SH ¹⁰ *
-	SM12L04MR-SLPMR-PN ¹⁰ *	SM12L04FR-12LFR-SN ¹⁰ *	SM12L04ER-12LER-SN ¹⁰ *	SM12L04ER-12LDR-SN ¹⁰ *
-	SMSLS04MR-SLSMR-PH ¹⁰ *	SMSLS04FR-SLSFR-SH ¹⁰ *	SMSLS04ER-SLSER-SH ¹⁰ *	SMSLS04ER-SLSDR-SH ¹⁰ *
-	SMSLS04MR-SLSMR-PN ¹⁰ *	SMSLS04FR-SLSFR-SN ¹⁰ *	SMSLS04ER-SLSER-SN ¹⁰ *	SMSLS04ER-SLSDR-SN ¹⁰ *

Number of Contacts	4 (3+FE)	
Coding	L	
Rated Voltage (AC/DC)	63V	
Nominal current	16A	
Pin Assignment	FM	MPronto-12 (M/M)
MM : Male Connector Male Contact FF : Female Connector Female Contact PE ⁽¹⁾ : Male Ground PE ⁽²⁾ : Female Ground		

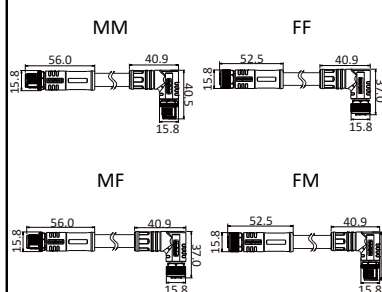
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	M12L04EL-12LEL-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	M12L04EL-SLPEL-PN ⑩ *
	Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	MSLS04EL-SLSEL-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	MSLS04EL-SLSEL-PN ⑩ *
	Stainless	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	SM12L04EL-12LEL-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	SM12L04EL-SLPEL-PN ⑩ *
	Stainless Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	SMSLS04EL-SLSEL-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	SMSLS04EL-SLSEL-PN ⑩ *

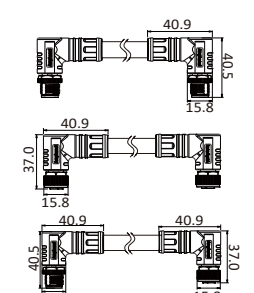
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLP04DL-SLPER-SH ⑩ *	-
		UL20549, High Flex / Bending PUR	MSLP04DL-SLPER-SN ⑩ *	-
	Metal Nut	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	M12L04DL-12LER-SH ⑩ *	M12L04EL-12LER-PH ⑩ *
		UL20549, High Flex / Bending PUR	M12L04DL-12LER-SN ⑩ *	M12L04EL-SLPER-PN ⑩ *
	Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	MSLS04DL-SLSER-SH ⑩ *	MSLS04EL-SLSER-PH ⑩ *
		UL20549, High Flex / Bending PUR	MSLS04DL-SLSER-SN ⑩ *	MSLS04EL-SLSER-PN ⑩ *
	Stainless	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SM12L04DL-12LER-SH ⑩ *	SM12L04EL-12LER-PH ⑩ *
		UL20549, High Flex / Bending PUR	SM12L04DL-12LER-SN ⑩ *	SM12L04EL-SLPER-PN ⑩ *
	Stainless Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	SMSLS04DL-SLSER-SH ⑩ *	SMSLS04EL-SLSER-PH ⑩ *
		UL20549, High Flex / Bending PUR	SMSLS04DL-SLSER-SN ⑩ *	SMSLS04EL-SLSER-PN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

	All Plastic	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	M12L04ER-12LER-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	M12L04ER-SLPER-PN ⑩ *
	Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	MSLS04ER-SLSER-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	MSLS04ER-SLSER-PN ⑩ *
	Stainless	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	SM12L04ER-12LER-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	SM12L04ER-SLPER-PN ⑩ *
	Stainless Shielded	UL2586, PVC Jacket	-	-
		UL20233, PUR Jacket	-	SMSLS04ER-SLSER-PH ⑩ *
		UL20549, High Flex / Bending PUR	-	SMSLS04ER-SLSER-PN ⑩ *

* Upon Request

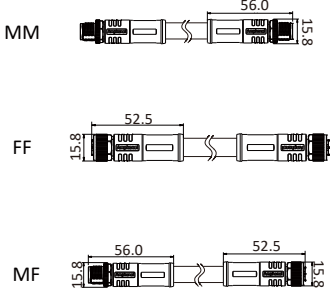
¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4 (3+FE)	4 (3+PE)			
L	S			
63V	630V			
16A	12A			
Female Power / Male Ground	MM	MF	FM	MPronto-12 (M/M)
				
-	MSSP-04ML-SSPML-SG ¹⁰ *	MSSP-04ML-SSPFL-SG ¹⁰ *	-	-
MSLP04DL-SLPDL-SH ¹⁰ *	-	-	-	-
MSLP04DL-SLPDL-SN ¹⁰ *	MSSP-04ML-SSPML-SN ¹⁰ *	MSSP-04ML-SSPFL-SN ¹⁰ *	-	-
-	M12S-04ML-12SML-SG ¹⁰ *	M12S-04ML-12SFL-SG ¹⁰ *	-	M12S04ML-12SML-PG ¹⁰ *
M12L04DL-12LDL-SH ¹⁰ *	-	-	-	-
M12L04DL-12LDL-SN ¹⁰ *	M12S-04ML-12SML-SN ¹⁰ *	M12S-04ML-12SFL-SN ¹⁰ *	-	M12S04ML-SSPML-PN ¹⁰ *
-	MSSS-04ML-SSSML-SG ¹⁰ *	MSSS-04ML-SSSFL-SG ¹⁰ *	-	MSSS04ML-SSSML-PG ¹⁰ *
MSLS04DL-SLSDL-SH ¹⁰ *	-	-	-	-
MSLS04DL-SLSDL-SN ¹⁰ *	MSSS-04ML-SSSML-SN ¹⁰ *	MSSS-04ML-SSSFL-SN ¹⁰ *	-	MSSS04ML-SSSML-PN ¹⁰ *
-	SM12S-04ML-12SML-SG ¹⁰ *	SM12S-04ML-12SFL-SG ¹⁰ *	-	SM12S04ML-12SML-PG ¹⁰ *
SM12L04DL-12LDL-SH ¹⁰ *	-	-	-	-
SM12L04DL-12LDL-SN ¹⁰ *	SM12S-04ML-12SML-SN ¹⁰ *	SM12S-04ML-12SFL-SN ¹⁰ *	-	SM12S04ML-SSPML-PN ¹⁰ *
-	SMSSS-04ML-SSSML-SG ¹⁰ *	SMSSS-04ML-SSSFL-SG ¹⁰ *	-	SMSSS04ML-SSSML-PG ¹⁰ *
SMSLS04DL-SLSDL-SH ¹⁰ *	-	-	-	-
SMSLS04DL-SLSDL-SN ¹⁰ *	SMSSS-04ML-SSSML-SN ¹⁰ *	SMSSS-04ML-SSSFL-SN ¹⁰ *	-	SMSSS04ML-SSSML-PN ¹⁰ *
-	MSSP-04ML-SSPMR-SG ¹⁰ *	MSSP04ML-SSPFR-SG ¹⁰ *	MSSP04FL-SSPMR-SG ¹⁰ *	-
MSLP04DL-SLPDR-SH ¹⁰ *	-	-	-	-
MSLP04DL-SLPDR-SN ¹⁰ *	MSSP-04ML-SSPMR-SN ¹⁰ *	MSSP04ML-SSPFR-SN ¹⁰ *	MSSP04FL-SSPMR-SN ¹⁰ *	-
-	M12S-04ML-12SMR-SG ¹⁰ *	M12S04ML-12SFR-SG ¹⁰ *	M12S04FL-12SMR-SG ¹⁰ *	M12S04ML-12SMR-PG ¹⁰ *
M12L04DL-12LDR-SH ¹⁰ *	-	-	-	-
M12L04DL-12LDR-SN ¹⁰ *	M12S-04ML-12SMR-SN ¹⁰ *	M12S04ML-12SFR-SN ¹⁰ *	M12S04FL-12SMR-SN ¹⁰ *	M12S04ML-SSPMR-PN ¹⁰ *
-	MSSS-04ML-SSSMR-SG ¹⁰ *	MSSS04ML-SSSFR-SG ¹⁰ *	MSSS04FL-SSSMR-SG ¹⁰ *	MSSS04ML-SSSMR-PG ¹⁰ *
MSLS04DL-SLSDR-SH ¹⁰ *	-	-	-	-
MSLS04DL-SLSDR-SN ¹⁰ *	MSSS-04ML-SSSMR-SN ¹⁰ *	MSSS04ML-SSSFR-SN ¹⁰ *	MSSS04FL-SSSMR-SN ¹⁰ *	MSSS04ML-SSSMR-PN ¹⁰ *
-	SM12S-04ML-12SMR-SG ¹⁰ *	SM12S04ML-12SFR-SG ¹⁰ *	SM12S04FL-12SMR-SG ¹⁰ *	SM12S04ML-12SMR-PG ¹⁰ *
SM12L04DL-12LDR-SH ¹⁰ *	-	-	-	-
SM12L04DL-12LDR-SN ¹⁰ *	SM12S-04ML-12SMR-SN ¹⁰ *	SM12S04ML-12SFR-SN ¹⁰ *	SM12S04FL-12SMR-SN ¹⁰ *	SM12S04ML-SSPMR-PN ¹⁰ *
-	SMSSS-04ML-SSSMR-SG ¹⁰ *	SMSSS04ML-SSSFR-SG ¹⁰ *	SMSSS04FL-SSSMR-SG ¹⁰ *	SMSSS04ML-SSSMR-PG ¹⁰ *
SMSLS04DL-SLSDR-SH ¹⁰ *	-	-	-	-
SMSLS04DL-SLSDR-SN ¹⁰ *	SMSSS-04ML-SSSMR-SN ¹⁰ *	SMSSS04ML-SSSFR-SN ¹⁰ *	SMSSS04FL-SSSMR-SN ¹⁰ *	SMSSS04ML-SSSMR-PN ¹⁰ *
-	MSSP-04MR-SSPMR-SG ¹⁰ *	MSSP-04MR-SSPFR-SG ¹⁰ *	-	-
MSLP04DR-SLPDR-SH ¹⁰ *	-	-	-	-
MSLP04DR-SLPDR-SN ¹⁰ *	MSSP-04MR-SSPMR-SN ¹⁰ *	MSSP-04MR-SSPFR-SN ¹⁰ *	-	-
-	M12S-04MR-12SMR-SG ¹⁰ *	M12S-04MR-12SFR-SG ¹⁰ *	-	M12S04MR-12SMR-PG ¹⁰ *
M12L04DR-12LDR-SH ¹⁰ *	-	-	-	-
M12L04DR-12LDR-SN ¹⁰ *	M12S-04MR-12SMR-SN ¹⁰ *	M12S-04MR-12SFR-SN ¹⁰ *	-	M12S04MR-SSPMR-PN ¹⁰ *
-	MSSS-04MR-SSSMR-SG ¹⁰ *	MSSS-04MR-SSSFR-SG ¹⁰ *	-	MSSS04MR-SSSMR-PG ¹⁰ *
MSLS04DR-SLSDR-SH ¹⁰ *	-	-	-	-
MSLS04DR-SLSDR-SN ¹⁰ *	MSSS-04MR-SSSMR-SN ¹⁰ *	MSSS-04MR-SSSFR-SN ¹⁰ *	-	MSSS04MR-SSSMR-PN ¹⁰ *
-	SM12S-04MR-12SMR-SG ¹⁰ *	SM12S-04MR-12SFR-SG ¹⁰ *	-	SM12S04MR-12SMR-PG ¹⁰ *
SM12L04DR-12LDR-SH ¹⁰ *	-	-	-	-
SM12L04DR-12LDR-SN ¹⁰ *	SM12S-04MR-12SMR-SN ¹⁰ *	SM12S-04MR-12SFR-SN ¹⁰ *	-	SM12S04MR-SSPMR-PN ¹⁰ *
-	SMSSS-04MR-SSSMR-SG ¹⁰ *	SMSSS-04MR-SSSFR-SG ¹⁰ *	-	SMSSS04MR-SSSMR-PG ¹⁰ *
SMSLS04DR-SLSDR-SH ¹⁰ *	-	-	-	-
SMSLS04DR-SLSDR-SN ¹⁰ *	SMSSS-04MR-SSSMR-SN ¹⁰ *	SMSSS-04MR-SSSFR-SN ¹⁰ *	-	SMSSS04MR-SSSMR-PN ¹⁰ *

Number of Contacts	4 (3+PE)	4
Coding	S	T
Rated Voltage (AC/DC)	630V	63V
Nominal current	12A	12A
Pin Assignment	FF	MM
MM : Male Connector Male Contact FF : Female Connector Female Contact		

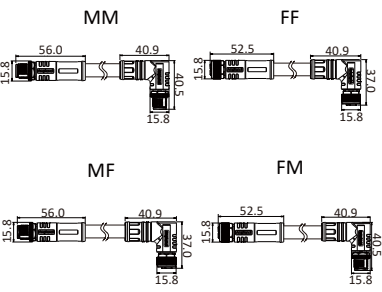
STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2586, PVC Jacket	MSSP-04FL-SSPFL-SG ⑩ *	-
		UL20233, PUR Jacket	-	MSTP04ML-STPML-SH ⑩ *
		UL20549, High Flex / Bending PUR	MSSP-04FL-SSPFL-SN ⑩ *	MSTP04ML-STPML-SN ⑩ *
	Metal Nut	UL2586, PVC Jacket	M12S-04FL-12SFL-SG ⑩ *	-
		UL20233, PUR Jacket	-	M12T04ML-12TML-SH ⑩ *
		UL20549, High Flex / Bending PUR	M12S-04FL-12SFL-SN ⑩ *	M12T04ML-12TML-SN ⑩ *
	Shielded	UL2586, PVC Jacket	MSSS-04FL-SSSFL-SG ⑩ *	-
		UL20233, PUR Jacket	-	MSTS04ML-STSMML-SH ⑩ *
		UL20549, High Flex / Bending PUR	MSSS-04FL-SSSFL-SN ⑩ *	MSTS04ML-STSMML-SN ⑩ *
	Stainless	UL2586, PVC Jacket	SM12S-04FL-12SFL-SG ⑩ *	-
		UL20233, PUR Jacket	-	SM12T04ML-12TML-SH ⑩ *
		UL20549, High Flex / Bending PUR	SM12S-04FL-12SFL-SN ⑩ *	SM12T04ML-12TML-SN ⑩ *
	Stainless Shielded	UL2586, PVC Jacket	SMSSS-04FL-SSSFL-SG ⑩ *	-
		UL20233, PUR Jacket	-	SMSTS04ML-STSMML-SH ⑩ *
		UL20549, High Flex / Bending PUR	SMSSS-04FL-SSSFL-SN ⑩ *	SMSTS04ML-STSMML-SN ⑩ *

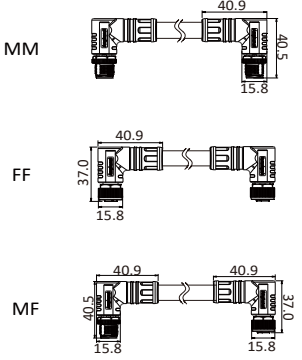
STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2586, PVC Jacket	MSSP-04FL-SSPFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	MSTP04ML-STPMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	MSSP-04FL-SSPFR-SN ⑩ *	MSTP04ML-STPMR-SN ⑩ *
	Metal Nut	UL2586, PVC Jacket	M12S-04FL-12SFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	M12T04ML-12TMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	M12S-04FL-12SFR-SN ⑩ *	M12T04ML-12TMR-SN ⑩ *
	Shielded	UL2586, PVC Jacket	MSSS-04FL-SSSFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	MSTS04ML-STSMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	MSSS-04FL-SSSFR-SN ⑩ *	MSTS04ML-STSMR-SN ⑩ *
	Stainless	UL2586, PVC Jacket	SM12S-04FL-12SFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	SM12T04ML-12TMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	SM12S-04FL-12SFR-SN ⑩ *	SM12T04ML-12TMR-SN ⑩ *
	Stainless Shielded	UL2586, PVC Jacket	SMSSS-04FL-SSSFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	SMSTS04ML-STSMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	SMSSS-04FL-SSSFR-SN ⑩ *	SMSTS04ML-STSMR-SN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF

	All Plastic	UL2586, PVC Jacket	MSSP-04FR-SSPFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	MSTP04MR-STPMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	MSSP-04FR-SSPFR-SN ⑩ *	MSTP04MR-STPMR-SN ⑩ *
	Metal Nut	UL2586, PVC Jacket	M12S-04FR-12SFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	M12T04MR-12TMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	M12S-04FR-12SFR-SN ⑩ *	M12T04MR-12TMR-SN ⑩ *
	Shielded	UL2586, PVC Jacket	MSSS-04FR-SSSFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	MSTS04MR-STSMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	MSSS-04FR-SSSFR-SN ⑩ *	MSTS04MR-STSMR-SN ⑩ *
	Stainless	UL2586, PVC Jacket	SM12S-04FR-12SFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	SM12T04MR-12TMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	SM12S-04FR-12SFR-SN ⑩ *	SM12T04MR-12TMR-SN ⑩ *
	Stainless Shielded	UL2586, PVC Jacket	SMSSS-04FR-SSSFR-SG ⑩ *	-
		UL20233, PUR Jacket	-	SMSTS04MR-STSMR-SH ⑩ *
		UL20549, High Flex / Bending PUR	SMSSS-04FR-SSSFR-SN ⑩ *	SMSTS04MR-STSMR-SN ⑩ *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

4			
T			
63V			
12A			
MF	FM	MPronto-12 (M/M)	FF
			
-	-	-	-
MSTP04ML-STPFL-SH 10 *	-	-	MSTP04FL-STPFL-SH 10 *
MSTP04ML-STPFL-SN 10 *	-	-	MSTP04FL-STPFL-SN 10 *
-	-	-	-
M12T04ML-12TFL-SH 10 *	-	M12T04ML-12TML-PH 10 *	M12T04FL-12TFL-SH 10 *
M12T04ML-12TFL-SN 10 *	-	M12T04ML-STPML-PN 10 *	M12T04FL-12TFL-SN 10 *
-	-	-	-
MSTS04ML-STSF-SH 10 *	-	MSTS04ML-STSM-PH 10 *	MSTS04FL-STSF-SH 10 *
MSTS04ML-STSF-SN 10 *	-	MSTS04ML-STSM-PN 10 *	MSTS04FL-STSF-SN 10 *
-	-	-	-
SM12T04ML-12TFL-SH 10 *	-	SM12T04ML-12TML-PH 10 *	SM12T04FL-12TFL-SH 10 *
SM12T04ML-12TFL-SN 10 *	-	SM12T04ML-STPML-PN 10 *	SM12T04FL-12TFL-SN 10 *
-	-	-	-
SMSTS04ML-STSF-SH 10 *	-	SMSTS04ML-STSM-PH 10 *	SMSTS04FL-STSF-SH 10 *
SMSTS04ML-STSF-SN 10 *	-	SMSTS04ML-STSM-PN 10 *	SMSTS04FL-STSF-SN 10 *
-	-	-	-
MSTP04ML-STPFR-SH 10 *	MSTP04FL-STPMR-SH 10 *	-	MSTP04FL-STPFR-SH 10 *
MSTP04ML-STPFR-SN 10 *	MSTP04FL-STPMR-SN 10 *	-	MSTP04FL-STPFR-SN 10 *
-	-	-	-
M12T04ML-12TFR-SH 10 *	M12T04FL-12TMR-SH 10 *	M12T04ML-12TMR-PH 10 *	M12T04FL-12TFR-SH 10 *
M12T04ML-12TFR-SN 10 *	M12T04FL-12TMR-SN 10 *	M12T04ML-STPMR-PN 10 *	M12T04FL-12TFR-SN 10 *
-	-	-	-
MSTS04ML-STSFR-SH 10 *	MSTS04FL-STSMR-SH 10 *	MSTS04ML-STSMR-PH 10 *	MSTS04FL-STSFR-SH 10 *
MSTS04ML-STSFR-SN 10 *	MSTS04FL-STSMR-SN 10 *	MSTS04ML-STSMR-PN 10 *	MSTS04FL-STSFR-SN 10 *
-	-	-	-
SM12T04ML-12TFR-SH 10 *	SM12T04FL-12TMR-SH 10 *	SM12T04ML-12TMR-PH 10 *	SM12T04FL-12TFR-SH 10 *
SM12T04ML-12TFR-SN 10 *	SM12T04FL-12TMR-SN 10 *	SM12T04ML-STPMR-PN 10 *	SM12T04FL-12TFR-SN 10 *
-	-	-	-
SMSTS04ML-STSFR-SH 10 *	SMSTS04FL-STSMR-SH 10 *	SMSTS04ML-STSMR-PH 10 *	SMSTS04FL-STSFR-SH 10 *
SMSTS04ML-STSFR-SN 10 *	SMSTS04FL-STSMR-SN 10 *	SMSTS04ML-STSMR-PN 10 *	SMSTS04FL-STSFR-SN 10 *
-	-	-	-
MSTP04MR-STPFR-SH 10 *	-	-	MSTP04FR-STPFR-SH 10 *
MSTP04MR-STPFR-SN 10 *	-	-	MSTP04FR-STPFR-SN 10 *
-	-	-	-
M12T04MR-12TFR-SH 10 *	-	M12T04MR-12TMR-PH 10 *	M12T04FR-12TFR-SH 10 *
M12T04MR-12TFR-SN 10 *	-	M12T04MR-STPMR-PN 10 *	M12T04FR-12TFR-SN 10 *
-	-	-	-
MSTS04MR-STSFR-SH 10 *	-	MSTS04MR-STSMR-PH 10 *	MSTS04FR-STSFR-SH 10 *
MSTS04MR-STSFR-SN 10 *	-	MSTS04MR-STSMR-PN 10 *	MSTS04FR-STSFR-SN 10 *
-	-	-	-
SM12T04MR-12TFR-SH 10 *	-	SM12T04MR-12TMR-PH 10 *	SM12T04FR-12TFR-SH 10 *
SM12T04MR-12TFR-SN 10 *	-	SM12T04MR-STPMR-PN 10 *	SM12T04FR-12TFR-SN 10 *
-	-	-	-
SMSTS04MR-STSFR-SH 10 *	-	SMSTS04MR-STSMR-PH 10 *	SMSTS04FR-STSFR-SH 10 *
SMSTS04MR-STSFR-SN 10 *	-	SMSTS04MR-STSMR-PN 10 *	SMSTS04FR-STSFR-SN 10 *

Number of Contacts	5 (4+PE)	
Coding	K	
Rated Voltage (AC/DC)	630V	
Nominal current	16A	
Pin Assignment	MM	MF
MM : Male Connector Male Contact FF : Female Connector Female Contact PE⁽¹⁾ : Male Ground PE⁽²⁾ : Female Ground		

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

K code MM  56.0 FF  52.5 MF  56.0 52.5 M code MM  46.0 MF  46.0 42.5	All Plastic	UL20234, PUR Jacket	MSKP05EL-SKPEL-SS ⑩ *	MSKP05EL-SKPDL-SS ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSKP05EL-SKPEL-SN ⑩ *	MSKP05EL-SKPDL-SN ⑩ *
	Shielded	UL20234, PUR Jacket	M12K05EL-12KEL-SS ⑩ *	M12K05EL-12KDL-SS ⑩ *
		UL20549, High Flex / Bending PUR	M12K05EL-12KEL-SN ⑩ *	M12K05EL-12KDL-SN ⑩ *
	Stainless	UL20234, PUR Jacket	MSKS05EL-SKSEL-SS ⑩ *	MSKS05EL-SKSDL-SS ⑩ *
		UL20549, High Flex / Bending PUR	MSKS05EL-SKSEL-SN ⑩ *	MSKS05EL-SKSDL-SN ⑩ *
	Stainless	UL20234, PUR Jacket	SM12K05EL-12KEL-SS ⑩ *	SM12K05EL-12KDL-SS ⑩ *
	Shielded	UL20549, High Flex / Bending PUR	SM12K05EL-12KEL-SN ⑩ *	SM12K05EL-12KDL-SN ⑩ *
	Stainless	UL20234, PUR Jacket	SMSKS05EL-SKSEL-SS ⑩ *	SMSKS05EL-SKSDL-SS ⑩ *
		UL20549, High Flex / Bending PUR	SMSKS05EL-SKSEL-SN ⑩ *	SMSKS05EL-SKSDL-SN ⑩ *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

K code MM  40.9 FF  40.9 MF  56.0 40.9 M code MM  46.0 MF  46.0 35.0	All Plastic	UL20234, PUR Jacket	MSKP05EL-SKPER-SS ⑩ *	MSKP05EL-SKPDR-SS ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSKP05EL-SKPER-SN ⑩ *	MSKP05EL-SKPDR-SN ⑩ *
	Shielded	UL20234, PUR Jacket	M12K05EL-12KER-SS ⑩ *	M12K05EL-12KDR-SS ⑩ *
		UL20549, High Flex / Bending PUR	M12K05EL-12KER-SN ⑩ *	M12K05EL-12KDR-SN ⑩ *
	Stainless	UL20234, PUR Jacket	MSKS05EL-SKSER-SS ⑩ *	MSKS05EL-SKSDR-SS ⑩ *
		UL20549, High Flex / Bending PUR	MSKS05EL-SKSER-SN ⑩ *	MSKS05EL-SKSDR-SN ⑩ *
	Stainless	UL20234, PUR Jacket	SM12K05EL-12KER-SS ⑩ *	SM12K05EL-12KDR-SS ⑩ *
	Shielded	UL20549, High Flex / Bending PUR	SM12K05EL-12KER-SN ⑩ *	SM12K05EL-12KDR-SN ⑩ *
	Stainless	UL20234, PUR Jacket	SMSKS05EL-SKSER-SS ⑩ *	SMSKS05EL-SKSDR-SS ⑩ *
		UL20549, High Flex / Bending PUR	SMSKS05EL-SKSER-SN ⑩ *	SMSKS05EL-SKSDR-SN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M¹⁾ | Connector / Contact Gender: **(M)** MM, **(F)** FF, **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

K code MM  40.9 FF  40.9 MF  40.9 M code MM  35.0 MF  35.0	All Plastic	UL20234, PUR Jacket	MSKP05ER-SKPER-SS ⑩ *	MSKP05ER-SKPDR-SS ⑩ *
	Metal Nut	UL20549, High Flex / Bending PUR	MSKP05ER-SKPER-SN ⑩ *	MSKP05ER-SKPDR-SN ⑩ *
	Shielded	UL20234, PUR Jacket	M12K05ER-12KER-SS ⑩ *	M12K05ER-12KDR-SS ⑩ *
		UL20549, High Flex / Bending PUR	M12K05ER-12KER-SN ⑩ *	M12K05ER-12KDR-SN ⑩ *
	Stainless	UL20234, PUR Jacket	MSKS05ER-SKSER-SS ⑩ *	MSKS05ER-SKSDR-SS ⑩ *
		UL20549, High Flex / Bending PUR	MSKS05ER-SKSER-SN ⑩ *	MSKS05ER-SKSDR-SN ⑩ *
	Stainless	UL20234, PUR Jacket	SM12K05ER-12KER-SS ⑩ *	SM12K05ER-12KDR-SS ⑩ *
	Shielded	UL20549, High Flex / Bending PUR	SM12K05ER-12KER-SN ⑩ *	SM12K05ER-12KDR-SN ⑩ *
	Stainless	UL20234, PUR Jacket	SMSKS05ER-SKSER-SS ⑩ *	SMSKS05ER-SKSDR-SS ⑩ *
		UL20549, High Flex / Bending PUR	SMSKS05ER-SKSER-SN ⑩ *	SMSKS05ER-SKSDR-SN ⑩ *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5 (4+PE)			5 (4+PE)	
K			M	
630V			630V	
16A			8A	
FM	MPronto-12 (M/M)	FF	Male Power / Female Ground	MF
				
-	-	MSKP05DL-SKPD ^L -SS 	MSMP05EL-SMPE ^L -SS 	MSMP05EL-SMPD ^L -SS 
-	-	MSKP05DL-SKPD ^L -SN 	MSMP05EL-SMPE ^L -SN 	MSMP05EL-SMPD ^L -SN 
-	M12K05EL-SKPE ^L -PS 	M12K05D ^L -12KD ^L -SS 	M12M05EL-12ME ^L -SS 	M12M05EL-12MD ^L -SS 
-	M12K05EL-SKPE ^L -PN 	M12K05D ^L -12KD ^L -SN 	M12M05EL-12ME ^L -SN 	M12M05EL-12MD ^L -SN 
-	MSKS05EL-SKSE ^L -PS 	MSKS05D ^L -SKSD ^L -SS 	MSMS05EL-SMSE ^L -SS 	MSMS05EL-SMSD ^L -SS 
-	MSKS05EL-SKSE ^L -PN 	MSKS05D ^L -SKSD ^L -SN 	MSMS05EL-SMSE ^L -SN 	MSMS05EL-SMSD ^L -SN 
-	SM12K05EL-SKPE ^L -PS 	SM12K05D ^L -12KD ^L -SS 	SM12M05EL-12ME ^L -SS 	SM12M05EL-12MD ^L -SS 
-	SM12K05EL-SKPE ^L -PN 	SM12K05D ^L -12KD ^L -SN 	SM12M05EL-12ME ^L -SN 	SM12M05EL-12MD ^L -SN 
-	SMSKS05EL-SKSE ^L -PS 	SMSKS05D ^L -SKSD ^L -SS 	SMSMS05EL-SMSE ^L -SS 	SMSMS05EL-SMSD ^L -SS 
-	SMSKS05EL-SKSE ^L -PN 	SMSKS05D ^L -SKSD ^L -SN 	SMSMS05EL-SMSE ^L -SN 	SMSMS05EL-SMSD ^L -SN 
MSKP05D ^L -SKPER-SS 	-	MSKP05D ^L -SKPD ^R -SS 	MSMP05EL-SMPER-SS 	MSMP05EL-SMPD ^R -SS 
MSKP05D ^L -SKPER-SN 	-	MSKP05D ^L -SKPD ^R -SN 	MSMP05EL-SMPER-SN 	MSMP05EL-SMPD ^R -SN 
M12K05D ^L -12KER-SS 	M12K05EL-12KER-PS 	M12K05D ^L -12KD ^R -SS 	M12M05EL-12MER-SS 	M12M05EL-12MD ^R -SS 
M12K05D ^L -12KER-SN 	M12K05EL-SKPER-PN 	M12K05D ^L -12KD ^R -SN 	M12M05EL-12MER-SN 	M12M05EL-12MD ^R -SN 
MSKS05D ^L -SKSER-SS 	MSKS05EL-SKSER-PS 	MSKS05D ^L -SKSD ^R -SS 	M12M05EL-12MER-SS 	MSMS05EL-SMSD ^R -SS 
MSKS05D ^L -SKSER-SN 	MSKS05EL-SKSER-PN 	MSKS05D ^L -SKSD ^R -SN 	MSMS05EL-SMSER-SN 	MSMS05EL-SMSD ^R -SN 
SM12K05D ^L -12KER-SS 	SM12K05EL-12KER-PS 	SM12K05D ^L -12KD ^R -SS 	SM12M05EL-12MER-SS 	SM12M05EL-12MD ^R -SS 
SM12K05D ^L -12KER-SN 	SM12K05EL-SKPER-PN 	SM12K05D ^L -12KD ^R -SN 	SM12M05EL-12MER-SN 	SM12M05EL-12MD ^R -SN 
SMSKS05D ^L -SKSER-SS 	SMSKS05EL-SKSER-PS 	SMSKS05D ^L -SKSD ^R -SS 	SMSMS05EL-SMSER-SS 	SMSMS05EL-SMSD ^R -SS 
SMSKS05D ^L -SKSER-SN 	SMSKS05EL-SKSER-PN 	SMSKS05D ^L -SKSD ^R -SN 	SMSMS05EL-SMSER-SN 	SMSMS05EL-SMSD ^R -SN 
-	-	MSKP05D ^R -SKPD ^R -SS 	MSMP05ER-SMPER-SS 	MSMP05ER-SMPD ^R -SS 
-	-	MSKP05D ^R -SKPD ^R -SN 	MSMP05ER-SMPER-SN 	MSMP05ER-SMPD ^R -SN 
-	M12K05ER-12KER-PS 	M12K05D ^R -12KD ^R -SS 	M12M05ER-12MER-SS 	M12M05ER-12MD ^R -SS 
-	M12K05ER-SKPER-PN 	M12K05D ^R -12KD ^R -SN 	M12M05ER-12MER-SN 	M12M05ER-12MD ^R -SN 
-	MSKS05ER-SKSER-PS 	MSKS05D ^R -SKSD ^R -SS 	MSMS05ER-SMSER-SS 	MSMS05ER-SMSD ^R -SS 
-	MSKS05ER-SKSER-PN 	MSKS05D ^R -SKSD ^R -SN 	MSMS05ER-SMSER-SN 	MSMS05ER-SMSD ^R -SN 
-	SM12K05ER-SKPER-PS 	SM12K05D ^R -12KD ^R -SS 	SM12M05ER-12MER-SS 	SM12M05ER-12MD ^R -SS 
-	SM12K05ER-SKPER-PN	SM12K05D ^R -12KD ^R -SN	SM12M05ER-12MER-SN	SM12M05ER-12MD ^R -SN
-	SMSKS05ER-SKSER-PS	SMSKS05D ^R -SKSD ^R -SS	SMSMS05ER-SMSER-SS	SMSMS05ER-SMSD ^R -SS
-	SMSKS05ER-SKSER-PN	SMSKS05D ^R -SKSD ^R -SN	SMSMS05ER-SMSER-SN	SMSMS05ER-SMSD ^R -SN

Number of Contacts	5 (4+PE)	
Coding	M	
Rated Voltage (AC/DC)	630V	
Nominal current	8A	
Pin Assignment	FM	MPronto-12 (M/M)
PE ⁽¹⁾ : Male Ground PE ⁽²⁾ : Female Ground		

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: (D) FF+PE⁽¹⁾, (E) MM+PE⁽²⁾

L code MM MF M code MM FF	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	M12M05EL-SMPEL-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	M12M05EL-SMPEL-PN ⑩ *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	MSMS05EL-SMSEL-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	MSMS05EL-SMSEL-PN ⑩ *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	SM12M05EL-SMPEL-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	SM12M05EL-SMPEL-PN ⑩ *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	SMSMS05EL-SMSEL-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	SMSMS05EL-SMSEL-PN ⑩ *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: (D) FF+PE⁽¹⁾, (E) MM+PE⁽²⁾

L code MM MF M code MM FF FM	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMP05DL-SMPER-SS ⑩ *	-
		UL20549, High Flex / Bending PUR	MSMP05DL-SMPER-SN ⑩ *	-
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	M12M05DL-12MER-SS ⑩ *	M12M05EL-12MER-PS ⑩ *
		UL20549, High Flex / Bending PUR	M12M05DL-12MER-SN ⑩ *	M12M05EL-SMPER-PN ⑩ *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	MSMS05DL-SMSER-SS ⑩ *	M12M05EL-12MER-PS ⑩ *
		UL20549, High Flex / Bending PUR	MSMS05DL-SMSER-SN ⑩ *	MSMS05EL-SMSER-PN ⑩ *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SM12M05DL-12MER-SS ⑩ *	SM12M05EL-12MER-PS ⑩ *
		UL20549, High Flex / Bending PUR	SM12M05DL-12MER-SN ⑩ *	SM12M05EL-SMPER-PN ⑩ *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	SMSMS05DL-SMSER-SS ⑩ *	SMSMS05EL-SMSER-PS ⑩ *
		UL20549, High Flex / Bending PUR	SMSMS05DL-SMSER-SN ⑩ *	SMSMS05EL-SMSER-PN ⑩ *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

⑩ Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: (D) FF+PE⁽¹⁾, (E) MM+PE⁽²⁾

L code MM MF M code MM FF	All Plastic	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	-
		UL20549, High Flex / Bending PUR	-	-
	Metal Nut	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	M12M05ER-12MER-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	M12M05ER-SMPER-PN ⑩ *
	Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	MSMS05ER-SMSER-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	MSMS05ER-SMSER-PN ⑩ *
	Stainless	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	SM12M05ER-SMPER-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	SM12M05ER-SMPER-PN ⑩ *
	Stainless Shielded	UL20233, PUR Jacket	-	-
		UL20234, PUR Jacket	-	SMSMS05ER-SMSER-PS ⑩ *
		UL20549, High Flex / Bending PUR	-	SMSMS05ER-SMSER-PN ⑩ *

* Upon Request

⁽¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

5 (4+PE)	5 (4+FE)			
M	L			
630V	63V			
8A	16A			
Female Power / Male Ground	Male Power / Female Ground	MF	FM	MPronto-12 (M/M)
				
-	MSLP05EL-SLPEL-SH ¹⁰ *	MSLP05EL-SLPDL-SH ¹⁰ *	-	-
MSMP05DL-SMPDL-SS ¹⁰ *	-	-	-	-
MSMP05DL-SMPDL-SN ¹⁰ *	MSLP05EL-SLPEL-SN ¹⁰ *	MSLP05EL-SLPDL-SN ¹⁰ *	-	-
-	M12L05EL-12LEL-SH ¹⁰ *	M12L05EL-12LDL-SH ¹⁰ *	-	M12L05EL-12LEL-PH ¹⁰ *
M12M05DL-12MDL-SS ¹⁰ *	-	-	-	-
M12M05DL-12MDL-SN ¹⁰ *	M12L05EL-12LEL-SN ¹⁰ *	M12L05EL-12LDL-SN ¹⁰ *	-	M12L05EL-SLPEL-PN ¹⁰ *
-	MSLS05EL-SLSEL-SH ¹⁰ *	MSLS05EL-SLSDL-SH ¹⁰ *	-	MSLS05EL-SLSEL-PH ¹⁰ *
MSMS05DL-SMSDL-SS ¹⁰ *	-	-	-	-
MSMS05DL-SMSDL-SN ¹⁰ *	MSLS05EL-SLSEL-SN ¹⁰ *	MSLS05EL-SLSDL-SN ¹⁰ *	-	MSLS05EL-SLSEL-PN ¹⁰ *
-	SM12L05EL-12LEL-SH ¹⁰ *	SM12L05EL-12LDL-SH ¹⁰ *	-	SM12L05EL-12LEL-PH ¹⁰ *
SM12M05DL-12MDL-SS ¹⁰ *	-	-	-	-
SM12M05DL-12MDL-SN ¹⁰ *	SM12L05EL-12LEL-SN ¹⁰ *	SM12L05EL-12LDL-SN ¹⁰ *	-	SM12L05EL-SLPEL-PN ¹⁰ *
-	SMSLS05EL-SLSEL-SH ¹⁰ *	SMSLS05EL-SLSDL-SH ¹⁰ *	-	SMSLS05EL-SLSEL-PH ¹⁰ *
SMSMS05DL-SMSDL-SS ¹⁰ *	-	-	-	-
SMSMS05DL-SMSDL-SN ¹⁰ *	SMSLS05EL-SLSEL-SN ¹⁰ *	SMSLS05EL-SLSDL-SN ¹⁰ *	-	SMSLS05EL-SLSEL-PN ¹⁰ *
-	MSLP05EL-SLPER-SH ¹⁰ *	MSLP05EL-SLPDR-SH ¹⁰ *	MSLP05DL-SLPER-SH ¹⁰ *	-
MSMP05DL-SMPDR-SS ¹⁰ *	-	-	-	-
MSMP05DL-SMPDR-SN ¹⁰ *	MSLP05EL-SLPER-SN ¹⁰ *	MSLP05EL-SLPDR-SN ¹⁰ *	MSLP05DL-SLPER-SN ¹⁰ *	-
-	M12L05EL-12LER-SH ¹⁰ *	M12L05EL-12LDR-SH ¹⁰ *	M12L05DL-12LER-SH ¹⁰ *	M12L05EL-12LER-PH ¹⁰ *
M12M05DL-12MDR-SS ¹⁰ *	-	-	-	-
M12M05DL-12MDR-SN ¹⁰ *	M12L05EL-12LER-SN ¹⁰ *	M12L05EL-12LDR-SN ¹⁰ *	M12L05DL-12LER-SN ¹⁰ *	M12L05EL-SLPER-PN ¹⁰ *
-	MSLS05EL-SLSER-SH ¹⁰ *	MSLS05EL-SLSDR-SH ¹⁰ *	MSLS05DL-SLSER-SH ¹⁰ *	MSLS05EL-SLSER-PH ¹⁰ *
M12M05DL-12MDR-SS ¹⁰ *	-	-	-	-
MSMS05DL-SMSDR-SN ¹⁰ *	MSLS05EL-SLSER-SN ¹⁰ *	MSLS05EL-SLSDR-SN ¹⁰ *	MSLS05DL-SLSER-SN ¹⁰ *	MSLS05EL-SLSER-PN ¹⁰ *
-	SM12L05EL-12LER-SH ¹⁰ *	SM12L05EL-12LDR-SH ¹⁰ *	SM12L05DL-12LER-SH ¹⁰ *	SM12L05EL-12LER-PH ¹⁰ *
SM12M05DL-12MDR-SS ¹⁰ *	-	-	-	-
SM12M05DL-12MDR-SN ¹⁰ *	SM12L05EL-12LER-SN ¹⁰ *	SM12L05EL-12LDR-SN ¹⁰ *	SM12L05DL-12LER-SN ¹⁰ *	SM12L05EL-SLPER-PN ¹⁰ *
-	SMSLS05EL-SLSER-SH ¹⁰ *	SMSLS05EL-SLSDR-SH ¹⁰ *	SMSLS05DL-SLSER-SH ¹⁰ *	SMSLS05EL-SLSER-PH ¹⁰ *
SMSMS05DL-SMSDR-SS ¹⁰ *	-	-	-	-
SMSMS05DL-SMSDR-SN ¹⁰ *	SMSLS05EL-SLSER-SN ¹⁰ *	SMSLS05EL-SLSDR-SN ¹⁰ *	SMSLS05DL-SLSER-SN ¹⁰ *	SMSLS05EL-SLSER-PN ¹⁰ *
-	MSLP05ER-SLPER-SH ¹⁰ *	MSLP05ER-SLPDR-SH ¹⁰ *	-	-
MSMP05DR-SMPDR-SS ¹⁰ *	-	-	-	-
MSMP05DR-SMPDR-SN ¹⁰ *	MSLP05ER-SLPER-SN ¹⁰ *	MSLP05ER-SLPDR-SN ¹⁰ *	-	-
-	M12L05ER-12LER-SH ¹⁰ *	M12L05ER-12LDR-SH ¹⁰ *	-	M12L05ER-12LER-PH ¹⁰ *
M12M05DR-12MDR-SS ¹⁰ *	-	-	-	-
M12M05DR-12MDR-SN ¹⁰ *	M12L05ER-12LER-SN ¹⁰ *	M12L05ER-12LDR-SN ¹⁰ *	-	M12L05ER-SLPER-PN ¹⁰ *
-	MSLS05ER-SLSER-SH ¹⁰ *	MSLS05ER-SLSDR-SH ¹⁰ *	-	MSLS05ER-SLSER-PH ¹⁰ *
MSMS05DR-SMSDR-SS ¹⁰ *	-	-	-	-
MSMS05DR-SMSDR-SN ¹⁰ *	MSLS05ER-SLSER-SN ¹⁰ *	MSLS05ER-SLSDR-SN ¹⁰ *	-	MSLS05ER-SLSER-PN ¹⁰ *
-	SM12L05ER-12LER-SH ¹⁰ *	SM12L05ER-12LDR-SH ¹⁰ *	-	SM12L05ER-12LER-PH ¹⁰ *
SM12M05DR-12MDR-SS ¹⁰ *	-	-	-	-
SM12M05DR-12MDR-SN ¹⁰ *	SM12L05ER-12LER-SN ¹⁰ *	SM12L05ER-12LDR-SN ¹⁰ *	-	SM12L05ER-SLPER-PN ¹⁰ *
-	SMSLS05ER-SLSER-SH ¹⁰ *	SMSLS05ER-SLSDR-SH ¹⁰ *	-	SMSLS05ER-SLSER-PH ¹⁰ *
SMSMS05DR-SMSDR-SS ¹⁰ *	-	-	-	-
SMSMS05DR-SMSDR-SN ¹⁰ *	SMSLS05ER-SLSER-SN ¹⁰ *	SMSLS05ER-SLSDR-SN ¹⁰ *	-	SMSLS05ER-SLSER-PN ¹⁰ *

Number of Contacts	5 (4+FE)	6 (5+PE)
Coding	L	M
Rated Voltage (AC/DC)	63V	630V
Nominal current	16A	8A
Pin Assignment	Female Power / Male Ground	Male Power / Female Ground
PE⁽¹⁾ : Male Ground PE⁽²⁾ : Female Ground		

STRAIGHT-TO-STRAIGHT, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

L code	All Plastic	UL20233, PUR Jacket	MSLP05DL-SLPDL-SH 10 *	-
		UL20234, PUR Jacket	-	MSMP06EL-SMPEL-SS 10 *
FF	Metal Nut	UL20549, High Flex / Bending PUR	MSLP05DL-SLPDL-SN 10 *	MSMP06EL-SMPEL-SN 10 *
		UL20233, PUR Jacket	M12L05DL-12LDL-SH 10 *	-
M code	Metal Nut	UL20234, PUR Jacket	-	M12M06EL-12MEL-SS 10 *
		UL20549, High Flex / Bending PUR	M12L05DL-12LDL-SN 10 *	M12M06EL-12MEL-SN 10 *
MM	Shielded	UL20233, PUR Jacket	MSLS05DL-SLSDL-SH 10 *	-
		UL20234, PUR Jacket	-	MSMS06EL-SMSEL-SS 10 *
FF	Shielded	UL20549, High Flex / Bending PUR	MSLS05DL-SLSDL-SN 10 *	MSMS06EL-SMSEL-SN 10 *
	Stainless	UL20233, PUR Jacket	SM12L05DL-12LDL-SH 10 *	-
MF	Stainless	UL20234, PUR Jacket	-	SM12M06EL-12MEL-SS 10 *
		UL20549, High Flex / Bending PUR	SM12L05DL-12LDL-SN 10 *	SM12M06EL-12MEL-SN 10 *
MF	Stainless Shielded	UL20233, PUR Jacket	SMSLS05DL-SLSDL-SH 10 *	-
		UL20234, PUR Jacket	-	SMSMS06EL-SMSEL-SS 10 *
MF	Stainless Shielded	UL20549, High Flex / Bending PUR	SMSLS05DL-SLSDL-SN 10 *	SMSMS06EL-SMSEL-SN 10 *

STRAIGHT-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

L code	All Plastic	UL20233, PUR Jacket	MSLP05DL-SLPDR-SH 10 *	-
		UL20234, PUR Jacket	-	MSMP06EL-SMPER-SS 10 *
FF	Metal Nut	UL20549, High Flex / Bending PUR	MSLP05DL-SLPDR-SN 10 *	MSMP06EL-SMPER-SN 10 *
		UL20233, PUR Jacket	M12L05DL-12LDR-SH 10 *	-
M code	Metal Nut	UL20234, PUR Jacket	-	M12M06EL-12MER-SS 10 *
		UL20549, High Flex / Bending PUR	M12L05DL-12LDR-SN 10 *	M12M06EL-12MER-SN 10 *
MM	Shielded	UL20233, PUR Jacket	MSLS05DL-SLSDR-SH 10 *	-
		UL20234, PUR Jacket	-	M12M06EL-12MER-SS 10 *
FF	Shielded	UL20549, High Flex / Bending PUR	MSLS05DL-SLSDR-SN 10 *	MSMS06EL-SMSER-SN 10 *
	Stainless	UL20233, PUR Jacket	SM12L05DL-12LDR-SH 10 *	-
MF	Stainless	UL20234, PUR Jacket	-	SM12M06EL-12MER-SS 10 *
		UL20549, High Flex / Bending PUR	SM12L05DL-12LDR-SN 10 *	SM12M06EL-12MER-SN 10 *
MF	Stainless Shielded	UL20233, PUR Jacket	SMSLS05DL-SLSDR-SH 10 *	-
		UL20234, PUR Jacket	-	SMSMS06EL-SMSER-SS 10 *
MF	Stainless Shielded	UL20549, High Flex / Bending PUR	SMSLS05DL-SLSDR-SN 10 *	SMSMS06EL-SMSER-SN 10 *

RIGHT ANGLE-TO-RIGHT ANGLE, Overmolded Double-Ended Cable Assembly

10 Cable Length: (001) 1M ~ (099) 99M⁽¹⁾ | Connector / Contact Gender: **(D)** FF+PE⁽¹⁾, **(E)** MM+PE⁽²⁾

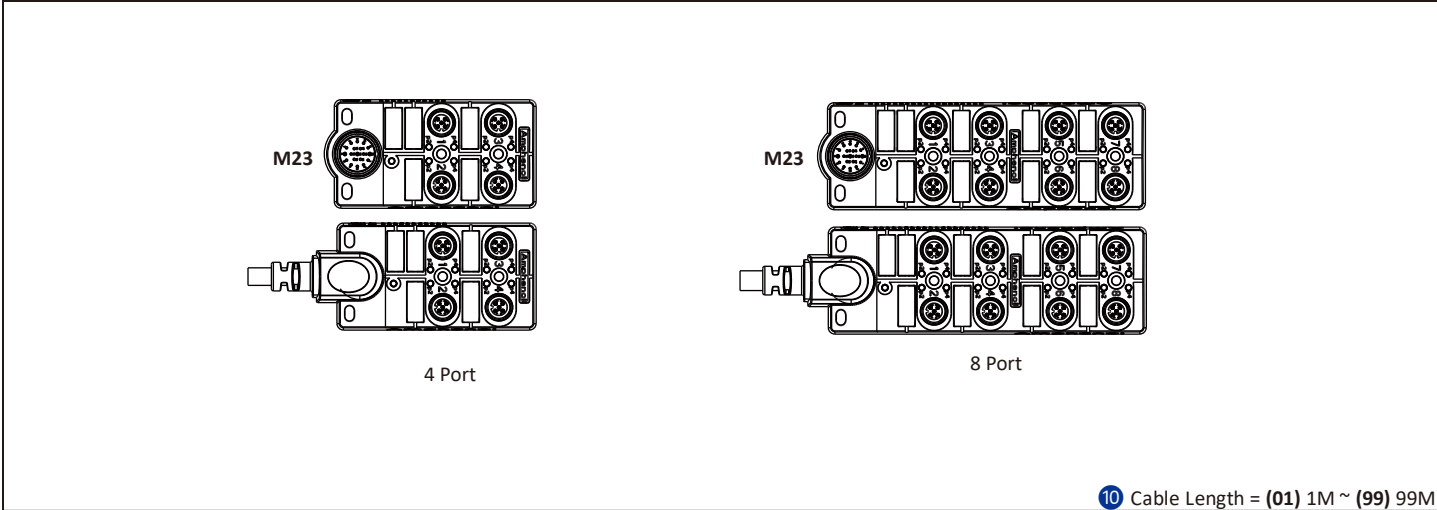
L code	All Plastic	UL20233, PUR Jacket	MSLP05DR-SLPDR-SH 10 *	-
		UL20234, PUR Jacket	-	MSMP06ER-SMPER-SS 10 *
FF	Metal Nut	UL20549, High Flex / Bending PUR	MSLP05DR-SLPDR-SN 10 *	MSMP06ER-SMPER-SN 10 *
		UL20233, PUR Jacket	M12L05DR-12LDR-SH 10 *	-
M code	Metal Nut	UL20234, PUR Jacket	-	M12M06ER-12MER-SS 10 *
		UL20549, High Flex / Bending PUR	M12L05DR-12LDR-SN 10 *	M12M06ER-12MER-SN 10 *
MM	Shielded	UL20233, PUR Jacket	MSLS05DR-SLSDR-SH 10 *	-
		UL20234, PUR Jacket	-	MSMS06ER-SMSER-SS 10 *
FF	Shielded	UL20549, High Flex / Bending PUR	MSLS05DR-SLSDR-SN 10 *	MSMS06ER-SMSER-SN 10 *
	Stainless	UL20233, PUR Jacket	SM12L05DR-12LDR-SH 10 *	-
MF	Stainless	UL20234, PUR Jacket	-	SM12M06ER-12MER-SS 10 *
		UL20549, High Flex / Bending PUR	SM12L05DR-12LDR-SN 10 *	SM12M06ER-12MER-SN 10 *
MF	Stainless Shielded	UL20233, PUR Jacket	SMSLS05DR-SLSDR-SH 10 *	-
		UL20234, PUR Jacket	-	SMSMS06ER-SMSER-SS 10 *
MF	Stainless Shielded	UL20549, High Flex / Bending PUR	SMSLS05DR-SLSDR-SN 10 *	SMSMS06ER-SMSER-SN 10 *

* Upon Request

¹⁾ Standard Lengths: 1M, 2M, 3M, 4M, 5M and 10M. Higher MOQ Might Be Required For Non-Standard Lengths

6 (5+PE)			
M			
630V			
8A			
MF	FM	MPronto-12 (M/M)	Female Power / Male Ground
			
-	-	-	-
MSMP06EL-SMPDL-SS ¹⁰ *	-	-	MSMP06DL-SMPDL-SS ¹⁰ *
MSMP06EL-SMPDL-SN ¹⁰ *	-	-	MSMP06DL-SMPDL-SN ¹⁰ *
-	-	-	-
M12M06EL-12MDL-SS ¹⁰ *	-	M12M06EL-SMPEL-PS ¹⁰ *	M12M06DL-12MDL-SS ¹⁰ *
M12M06EL-12MDL-SN ¹⁰ *	-	M12M06EL-SMPEL-PN ¹⁰ *	M12M06DL-12MDL-SN ¹⁰ *
-	-	-	-
MSMS06EL-SMSDL-SS ¹⁰ *	-	MSMS06EL-SMSEL-PS ¹⁰ *	MSMS06DL-SMSDL-SS ¹⁰ *
MSMS06EL-SMSDL-SN ¹⁰ *	-	MSMS06EL-SMSEL-PN ¹⁰ *	MSMS06DL-SMSDL-SN ¹⁰ *
-	-	-	-
SM12M06EL-12MDL-SS ¹⁰ *	-	SM12M06EL-SMPEL-PS ¹⁰ *	SM12M06DL-12MDL-SS ¹⁰ *
SM12M06EL-12MDL-SN ¹⁰ *	-	SM12M06EL-SMPEL-PN ¹⁰ *	SM12M06DL-12MDL-SN ¹⁰ *
-	-	-	-
SMSMS06EL-SMSDL-SS ¹⁰ *	-	SMSMS06EL-SMSEL-PS ¹⁰ *	SMSMS06DL-SMSDL-SS ¹⁰ *
SMSMS06EL-SMSDL-SN ¹⁰ *	-	SMSMS06EL-SMSEL-PN ¹⁰ *	SMSMS06DL-SMSDL-SN ¹⁰ *
-	-	-	-
MSMP06EL-SMPDR-SS ¹⁰ *	MSMP06DL-SMPER-SS ¹⁰ *	-	MSMP06DL-SMPDR-SS ¹⁰ *
MSMP06EL-SMPDR-SN ¹⁰ *	MSMP06DL-SMPER-SN ¹⁰ *	-	MSMP06DL-SMPDR-SN ¹⁰ *
-	-	-	-
M12M06EL-12MDR-SS ¹⁰ *	M12M06DL-12MER-SS ¹⁰ *	M12M06EL-12MER-PS ¹⁰ *	M12M06DL-12MDR-SS ¹⁰ *
M12M06EL-12MDR-SN ¹⁰ *	M12M06DL-12MER-SN ¹⁰ *	M12M06EL-SMPER-PN ¹⁰ *	M12M06DL-12MDR-SN ¹⁰ *
-	-	-	-
MSMS06EL-SMSDR-SS ¹⁰ *	MSMS06DL-SMSER-SS ¹⁰ *	M12M06EL-12MER-PS ¹⁰ *	M12M06DL-12MDR-SS ¹⁰ *
MSMS06EL-SMSDR-SN ¹⁰ *	MSMS06DL-SMSER-SN ¹⁰ *	MSMS06EL-SMSER-PN ¹⁰ *	MSMS06DL-SMSDR-SN ¹⁰ *
-	-	-	-
SM12M06EL-12MDR-SS ¹⁰ *	SM12M06DL-12MER-SS ¹⁰ *	SM12M06EL-12MER-PS ¹⁰ *	SM12M06DL-12MDR-SS ¹⁰ *
SM12M06EL-12MDR-SN ¹⁰ *	SM12M06DL-12MER-SN ¹⁰ *	SM12M06EL-SMPER-PN ¹⁰ *	SM12M06DL-12MDR-SN ¹⁰ *
-	-	-	-
SMSMS06EL-SMSDR-SS ¹⁰ *	SMSMS06DL-SMSER-SS ¹⁰ *	SMSMS06EL-SMSER-PS ¹⁰ *	SMSMS06DL-SMSDR-SS ¹⁰ *
SMSMS06EL-SMSDR-SN ¹⁰ *	SMSMS06DL-SMSER-SN ¹⁰ *	SMSMS06EL-SMSER-PN ¹⁰ *	SMSMS06DL-SMSDR-SN ¹⁰ *
-	-	-	-
MSMP06ER-SMPDR-SS ¹⁰ *	-	-	MSMP06DR-SMPDR-SS ¹⁰ *
MSMP06ER-SMPDR-SN ¹⁰ *	-	-	MSMP06DR-SMPDR-SN ¹⁰ *
-	-	-	-
M12M06ER-12MDR-SS ¹⁰ *	-	M12M06ER-12MER-PS ¹⁰ *	M12M06DR-12MDR-SS ¹⁰ *
M12M06ER-12MDR-SN ¹⁰ *	-	M12M06ER-SMPER-PN ¹⁰ *	M12M06DR-12MDR-SN ¹⁰ *
-	-	-	-
MSMS06ER-SMSDR-SS ¹⁰ *	-	MSMS06ER-SMSER-PS ¹⁰ *	MSMS06DR-SMSDR-SS ¹⁰ *
MSMS06ER-SMSDR-SN ¹⁰ *	-	MSMS06ER-SMSER-PN ¹⁰ *	MSMS06DR-SMSDR-SN ¹⁰ *
-	-	-	-
SM12M06ER-12MDR-SS ¹⁰ *	-	SM12M06ER-SMPER-PS ¹⁰ *	SM12M06DR-12MDR-SS ¹⁰ *
SM12M06ER-12MDR-SN ¹⁰ *	-	SM12M06ER-SMPER-PN ¹⁰ *	SM12M06DR-12MDR-SN ¹⁰ *
-	-	-	-
SMSMS06ER-SMSDR-SS ¹⁰ *	-	SMSMS06ER-SMSER-PS ¹⁰ *	SMSMS06DR-SMSDR-SS ¹⁰ *
SMSMS06ER-SMSDR-SN ¹⁰ *	-	SMSMS06ER-SMSER-PN ¹⁰ *	SMSMS06DR-SMSDR-SN ¹⁰ *

Distribution Box

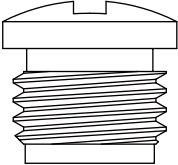
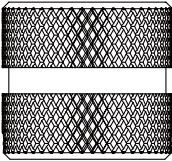
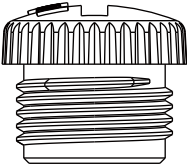
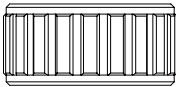


10 Cable Length = (01) 1M ~ (99) 99M

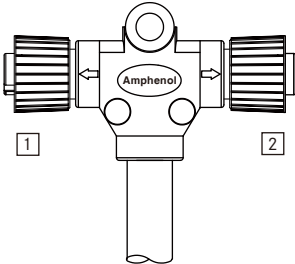
Coding	Nominal Current	No. of Contacts	Port	M12	
				Without Cable	With Cable
A	4A	05	4	DB12-5A4M23-DPS7001	DB12-5A4CAB-DPS7B 10
			8	DB12-5A8M23-DPS7001	DB12-5A8CAB-DPS7B 10

* Upon Request

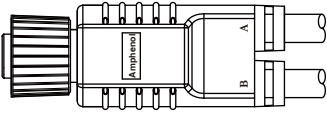
Waterproof Cap

 M8 (For Female)  M10.5 (For Male)  M12 (For Female)  M23 (For Male)					
Size	Mating Pair	Mating Gender	Material	Attachment	Screw Thread
M8	Overmolded with Cable	Female	Plastic	With Lead	CAP-WBBFSPC1
		Female	Plastic	Cap Only	CAP-WBBFSMA1
	Receptacle and Overmolded with Cable	Male	Plastic	Cap Only	CAP-WBBMSMA1
		Female	Plastic	Cap Only	CAP-WBBFSMA1
M10.5	Receptacle and Overmolded with Cable	Male	Metal	Cap Only	CAP-WBCMSMA2
M12 A / B / D / I K / L / S / T / X	Receptacle	Male	Metal	With Chain	CAP-WBDMSPB2
		Female	Metal	With Chain	CAP-WBDFSPB1
	Receptacle and Overmolded with Cable	Male	Plastic	Cap Only	CAP-WBDMSMA1
		Male	Metal	Cap Only	CAP-WBDMSMA2
		Female	Plastic	Cap Only	CAP-WBDFSMA1
		Female	Metal	Cap Only	CAP-WBDFSMA2
M23	Receptacle	Male	Metal	Cap Only	CAP-WBHMSMA1

M12 T-Cable

						
10 Cable Length = (01) 1M ~ (99) 99M						
Type	Type	Nominal Current	2 No. of Contacts	Male To Male	Female To Female	Male To Female
Metal	A-Code	4A	03, 04, 05	SS-2 2 00-MM0-TSA 10	SS-2 2 00-FF0-TSA 10	SS-2 2 00-MF0-TSA 10
		2A	06, 08			
	B-Code	4A	05	SB-2 2 00-MM0-TSA 10	SB-2 2 00-FF0-TSA 10	SB-2 2 00-MF0-TSA 10
	D-Code	4A	04	SD-2 2 00-MM0-TSA 10	SD-2 2 00-FF0-TSA 10	SD-2 2 00-MF0-TSA 10
	I-Style	4A	05	SI-2 2 00-KK0-TSA 10	SI-2 2 00-ZZ0-TSA 10	SI-2 2 00-KZ0-TSA 10
Plastic	A-Code	4A	03, 04, 05	PS-2 2 00-MM0-TSA 10	PS-2 2 00-FF0-TSA 10	PS-2 2 00-MF0-TSA 10
		2A	06, 08			
	B-Code	4A	05	PB-2 2 00-MM0-TSA 10	PB-2 2 00-FF0-TSA 10	PB-2 2 00-MF0-TSA 10
	D-Code	4A	04	PD-2 2 00-MM0-TSA 10	PD-2 2 00-FF0-TSA 10	PD-2 2 00-MF0-TSA 10
	I-Style	4A	05	PI-2 2 00-KK0-TSA 10	PI-2 2 00-ZZ0-TSA 10	PI-2 2 00-KZ0-TSA 10

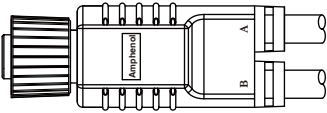
M12 Y-Cable Plastic



10 Cable Length = (01) 1M ~ (99) 99M

Type	Nominal Current	2 No. of Contacts	Male	Female
A-Code	4A	03, 04, 05	PS-2 0000-M00-YSB 10 *	PS-2 0000-F00-YSB 10 *
	2A	06, 08		
B-Code	4A	05	PB-2 0000-M00-YSB 10 *	PB-2 0000-F00-YSB 10 *
D-Code	4A	04	PD-2 0000-M00-YSB 10 *	PD-2 0000-F00-YSB 10 *
I-Style	4A	05	PI-2 0000-K00-YSB 10 *	PI-2 0000-Z00-YSB 10 *
			PI-2 0000-M00-YSB 10 *	PI-2 0000-F00-YSB 10 *

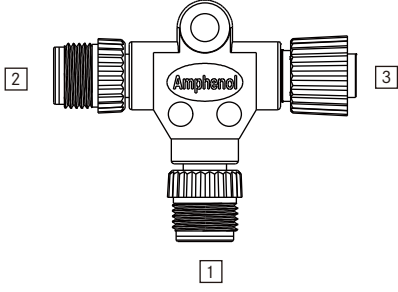
M12 Y-Cable Metal



10 Cable Length = (01) 1M ~ (99) 99M

Type	Nominal Current	2 No. of Contacts	Male	Female
A-Code	4A	03, 04, 05	SS-2 0000-M00-YSB 10	SS-2 0000-F00-YSB 10
	2A	06, 08		
B-Code	4A	05	SB-2 0000-M00-YSB 10	SB-2 0000-F00-YSB 10
D-Code	4A	04	SD-2 0000-M00-YSB 10	SD-2 0000-F00-YSB 10
I-Style	4A	05	SI-2 0000-K00-YSB 10	SI-2 0000-Z00-YSB 10
			SI-2 0000-M00-YSB 10	SI-2 0000-F00-YSB 10

M12 T-Adaptor Plastic

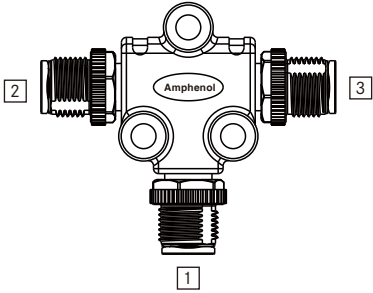


Choose Connector / Contact Gender:
5 For connector 1
6 For connector 2
7 For connector 3
A/B/D Code
M: Male + Male
F: Female + Female
I-Style
K: Connector (Male) + Contact (Male+Female)
Z: Connector (Female) + Contact (Male+Female)

Type	Nominal Current	2 No. of Contacts	Part Number
A-Code	4A	03, 04, 05	PS-2 2 2 2 -5 6 7 -TS001
	2A	06, 08	
	1.5A	10, 12	
B-Code	4A	05	PB-2 2 2 2 -5 6 7 -TS001*
D-Code	4A	04	PD-2 2 2 2 -5 6 7 -TS001*
I-Style	4A	05	PI-2 2 2 2 -5 6 7 -TS001*

* Upon Request

M12 T-Adaptor Metal



Choose Connector / Contact Gender:

- 5 For connector 1
- 6 For connector 2
- 7 For connector 3

A/B/D Code

M: Male + Male

F: Female + Female

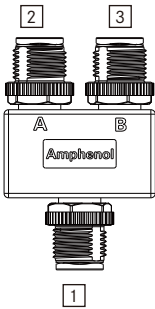
I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

Type	Nominal Current	2 No. of Contacts	Part Number
A-Code	4A	03, 04, 05	TA-A25-A26-A27-01
	2A	06, 08	
	1.5A	10, 12	
B-Code	4A	05	TA-B25-B26-B27-01*
D-Code	4A	04	TA-D25-D26-D27-01*
I-Style	4A	05	SI-050505-567-TS001*

M12 Y-Adaptor Plastic



Choose Connector / Contact Gender:

- 5 For connector 1
- 6 For connector 2
- 7 For connector 3

A/B/D Code

M: Male + Male

F: Female + Female

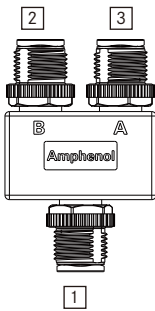
I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

Type	Nominal Current	2 No. of Contacts	Part Number
A-Code	4A	03, 04, 05	PS-222-567-YS001*
	2A	06, 08	
	1.5A	10, 12	
B-Code	4A	05	PB-222-567-YS001*
D-Code	4A	04	PD-222-567-YS001*
I-Style	4A	05	PI-050505-567-YS001*

M12 Y-Adaptor Metal



Choose Connector / Contact Gender:

- 5 For connector 1
- 6 For connector 2
- 7 For connector 3

A/B/D Code

M: Male + Male

F: Female + Female

I Style

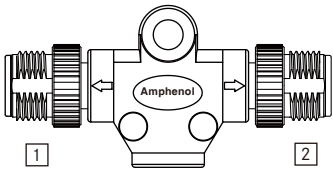
K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

Type	Nominal Current	2 No. of Contacts	Part Number
A-Code	4A	03, 04, 05	YA-A25-A26-A27-01
	2A	06, 08	
	1.5A	10, 12	
B-Code	4A	05	YA-B25-B26-B27-01
D-Code	4A	04	YA-D25-D26-D27-01*
I-Style	4A	05	SI-050505-567-YS001

* Upon Request

M12 I-Adaptor Plastic



Choose Connector / Contact Gender:

6 For connector 1

7 For connector 2

A/B/D Code

M: Male + Male

F: Female + Female

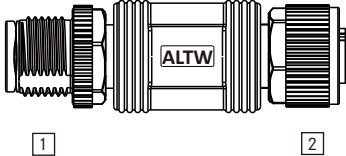
I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

Type	Nominal Current	2 No. of Contacts	Part Number
A-Code	4A	03, 04, 05	PS-00 2 2 -0 6 7 -IS001
	2A	06, 08	
	1.5A	10, 12	
B-Code	4A	05	PB-00 2 2 -0 6 7 -IS001*
D-Code	4A	04	PD-00 2 2 -0 6 7 -IS001*
I-Style	4A	05	PI-000505-0 6 7 -IS001*

M12 I-Adaptor Metal



Choose Connector / Contact Gender:

6 For connector 1

7 For connector 2

A/B/D Code

M: Male + Male

F: Female + Female

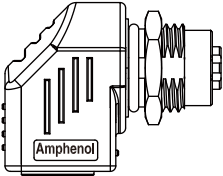
I Style

K: Connector (Male) + Contact (Male+Female)

Z: Connector (Female) + Contact (Male+Female)

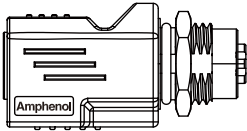
Type	Nominal Current	2 No. of Contacts	Part Number
A-Code	4A	03, 04, 05	IA-A 2 5 -A 2 6 -0000-01
	2A	06, 08	
	1.5A	10, 12	
B-Code	4A	05	IA-B 2 5 -B 2 6 -0000-01*
D-Code	4A	04	IA-D 2 5 -D 2 6 -0000-01*
I-Style	4A	05	SI-000505-0 6 7 -IS001*

M12 To RJ45 Adaptor

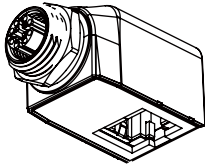


D Code

Right Angle

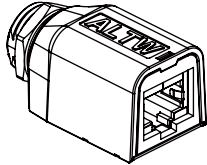


Straight



X Code

Right Angle

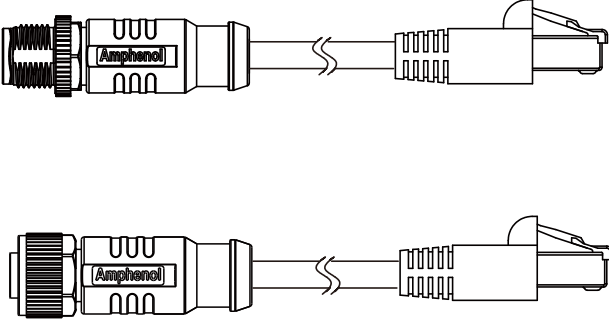


Straight

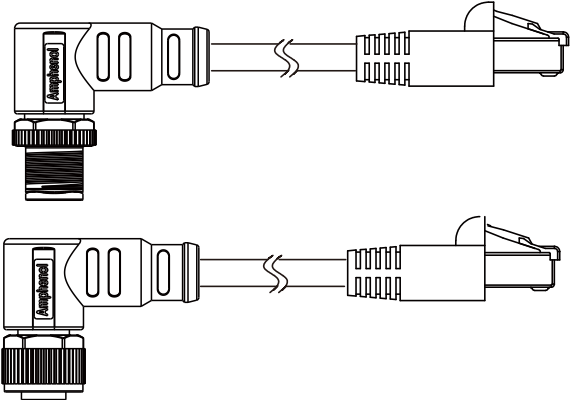
Type	Nominal Current	No. of Contacts	Gender	Straight / Right Angle	Part Number
D-Code	4A	04	Female	Straight	RJS-12D04FF-LS8001
				Right Angle	RJS-12D04FF-RS8001
			Male	Straight	RJS-12D04FM-LS8001
				Right Angle	RJS-12D04FM-RS8001
X-Code	0.5A	08	Female	Straight	RJS-12X08FF-LS7001
				Right Angle	RJS-12X08FF-RS7001

* Upon Request

M12 to RJ45 Cable



Straight



Right Angle

10 Cable Length = (A05) 0.5M, (001) 1M ~ (040) 40M

Type	Nominal Current	No. of Contacts	Gender	Straight / Right Angle	Part Number
A-Code	2A	08	M (Male) / F (Female)	Straight	MSAS08 3 L-SPBML-SE 10
	2A	08	M (Male) / F (Female)	Right Angle	MSAS08 3 R-SPBML-SE 10
D-Code	4A	04	M (Male) / F (Female)	Straight	MSDS04 3 L-SPBML-SE 10
	4A	04	M (Male) / F (Female)	Right Angle	MSDS04 3 R-SPBML-SE 10
X-Code	0.5A	08	M (Male) / F (Female)	Straight	MSXS08 3 L-SPBML-SX 10
	0.5A	08	M (Male) / F (Female)	Right Angle	MSXS08 3 R-SPBML-SX 10

MPronto-12 Kit - Unrivaed Push-Pull Connector For Self-Assembly



- ✓ Design Your Products With The Excellent MPronto-12 Kit. You Can Get All Benefits of MPronto-12.
- ✓ With The MPronto-12 Kit, You Still Can Use Any Materials & Do Your Own Cable Assembly.

	Type	No. of Contacts	Gender	Non-Shielded	Shielded
				Part Number	Part Number
Solder Type	A-Code	03	Male	APPM-A03MAPAN-AS1*	APPM-A03MAPAS-AS1*
		04	Male	APPM-A04MAPAN-AS1*	APPM-A04MAPAS-AS1*
		05	Male	APPM-A05MAPAN-AS1	APPM-A05MAPAS-AS1*
		06	Male	APPM-A06MAPAN-AS1*	APPM-A06MAPAS-AS1*
		08	Male	APPM-A08MAPAN-AS1	APPM-A08MAPAS-AS1*
		10	Male	APPM-A10MAPAN-AS1*	APPM-A10MAPAS-AS1*
		12	Male	APPM-A12MAPAN-AS1	APPM-A12MAPAS-AS1*
		17	Male	APPM-A17MAPAN-AS1	APPM-A17MAPAS-AS1*
	B-Code	05	Male	APPM-A05MAPAN-BS1	APPM-A05MAPAS-BS1*
	D-Code	04	Male	APPM-A04MAPAN-DS1	APPM-A04MAPAS-DS1*
Crimp Type	A-Code	03	Male	APPM-A03MAPAN-AC1*	APPM-A03MAPAS-AC1*
		04	Male	APPM-A04MAPAN-AC1*	APPM-A04MAPAS-AC1*
		05	Male	APPM-A05MAPAN-AC1*	APPM-A05MAPAS-AC1*
		06	Male	APPM-A06MAPAN-AC1*	APPM-A06MAPAS-AC1*
		08	Male	APPM-A08MAPAN-AC1*	APPM-A08MAPAS-AC1*
	B-Code	05	Male	APPM-A05MAPAN-BC1*	APPM-A05MAPAS-BC1*
	D-Code	04	Male	APPM-A04MAPAN-DC1*	APPM-A04MAPAS-DC1*
	X-Code	08	Male	-	APPM-A08MAPAS-XC1*
	A-Code	03	Male	APPM-A03MAPAN-AS1*	APPM-A03MAPAS-AS1*
		04	Male	APPM-A04MAPAN-AS1*	APPM-A04MAPAS-AS1*

Customization - Upon Request

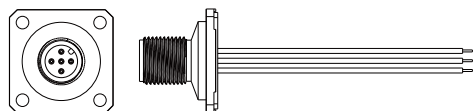
1. M8 / M12 Sensor Insert



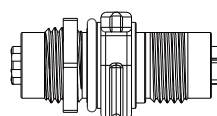
8. M8 To X-Lok



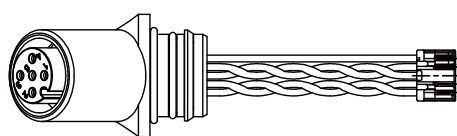
2. Square Receptacle



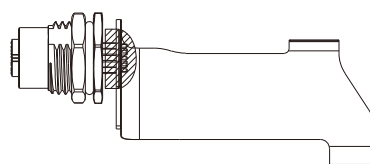
9. M12 Receptacle Feedthrough



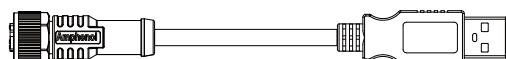
3. Metal Injection Molding



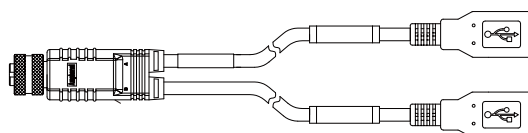
10. With FPC Termination



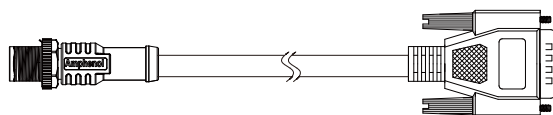
4. M12 To USB Plug



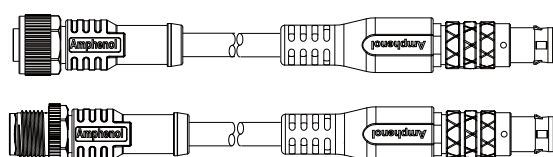
5. M12 To USB Jack Splitter

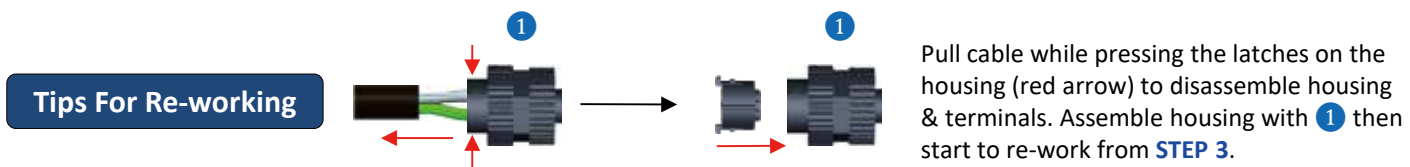
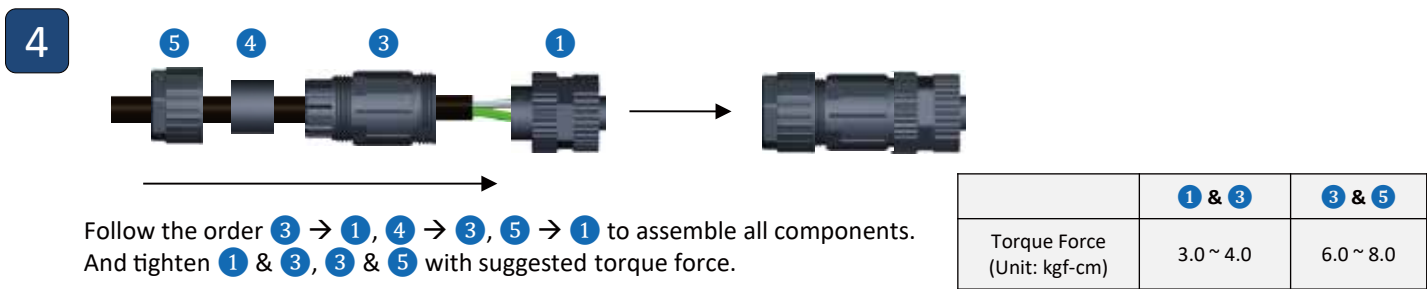
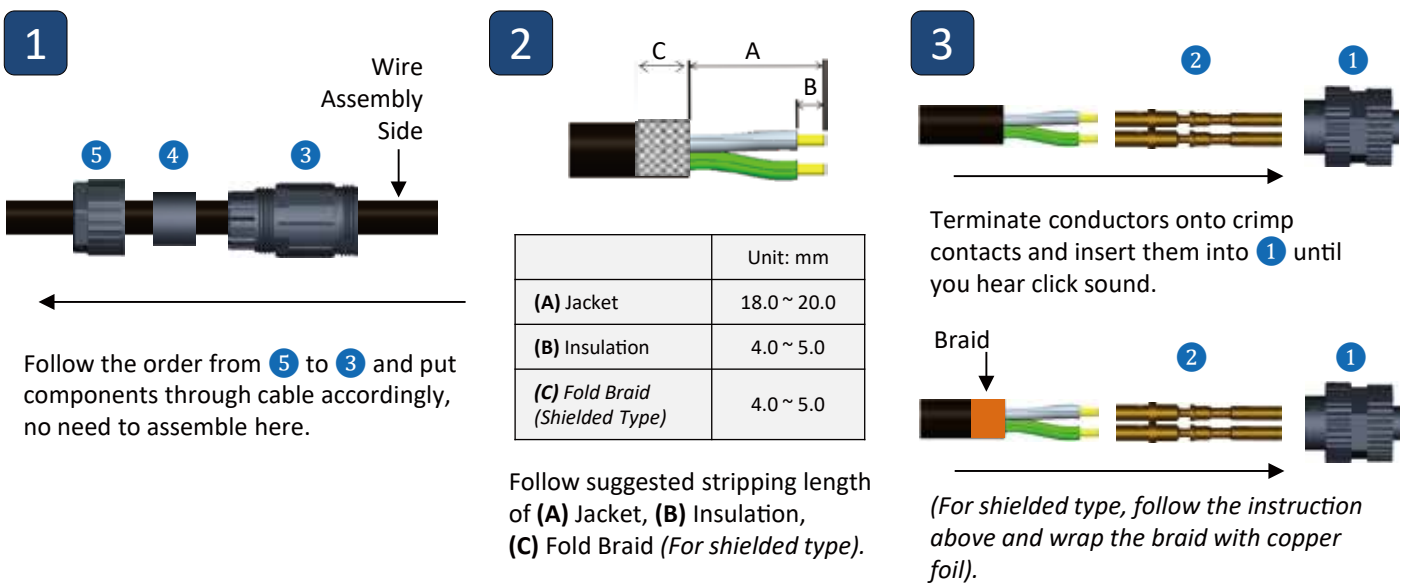


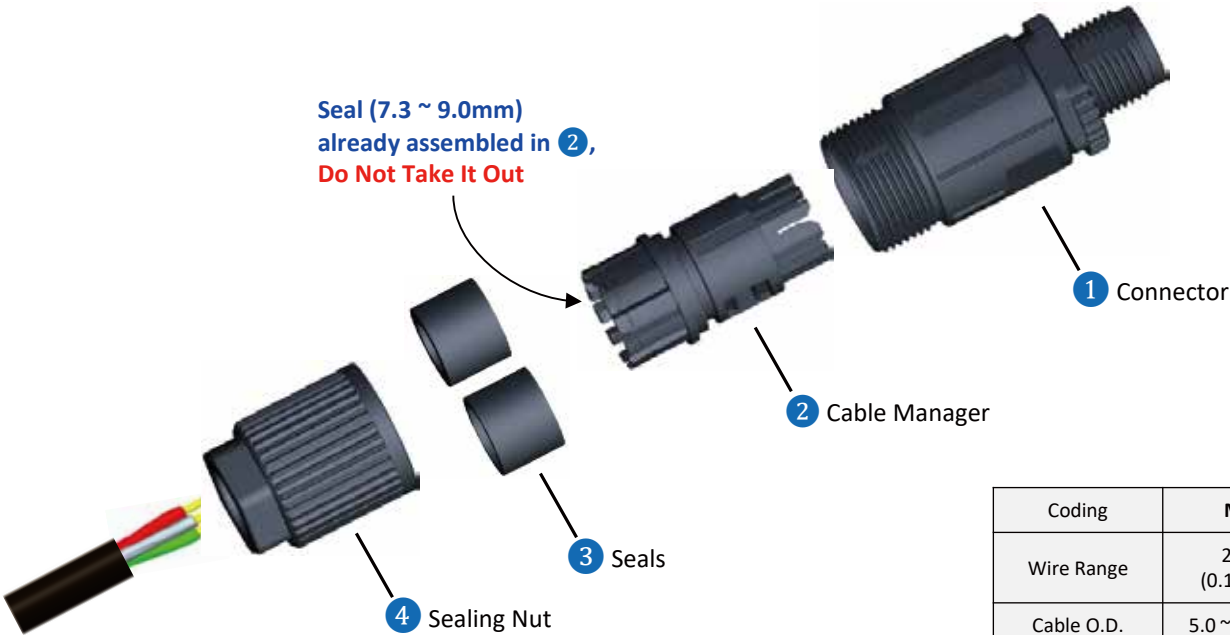
6. M12 To D-Sub



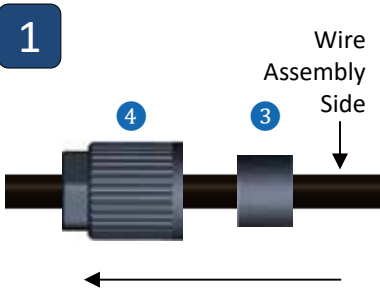
7. M12 To FLOS (FLOS+)



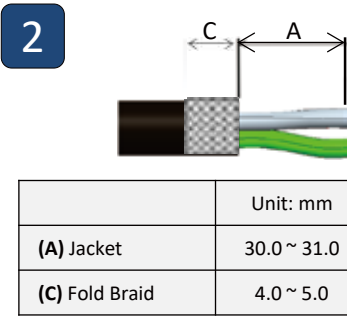




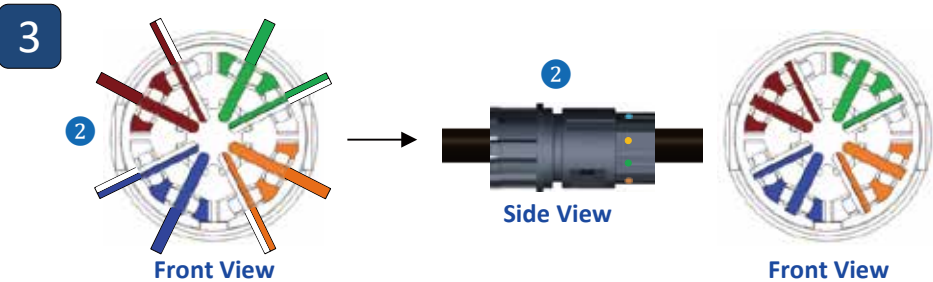
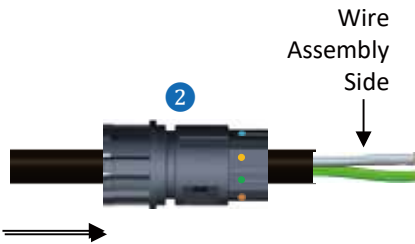
Coding	M12 X Code
Wire Range	26 ~ 22 AWG (0.14 ~ 0.34 mm ²)
Cable O.D. (Unit: mm)	5.0 ~ 6.0 (Black Seal) 6.1 ~ 7.2 (Gray Seal)



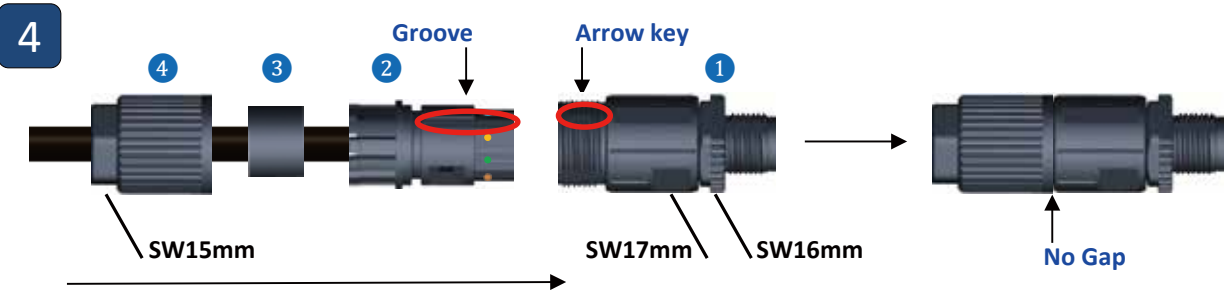
Choose ③ according to your cable O.D. and follow the order from ④ to ③ and put components through cable accordingly, no need to assemble here.



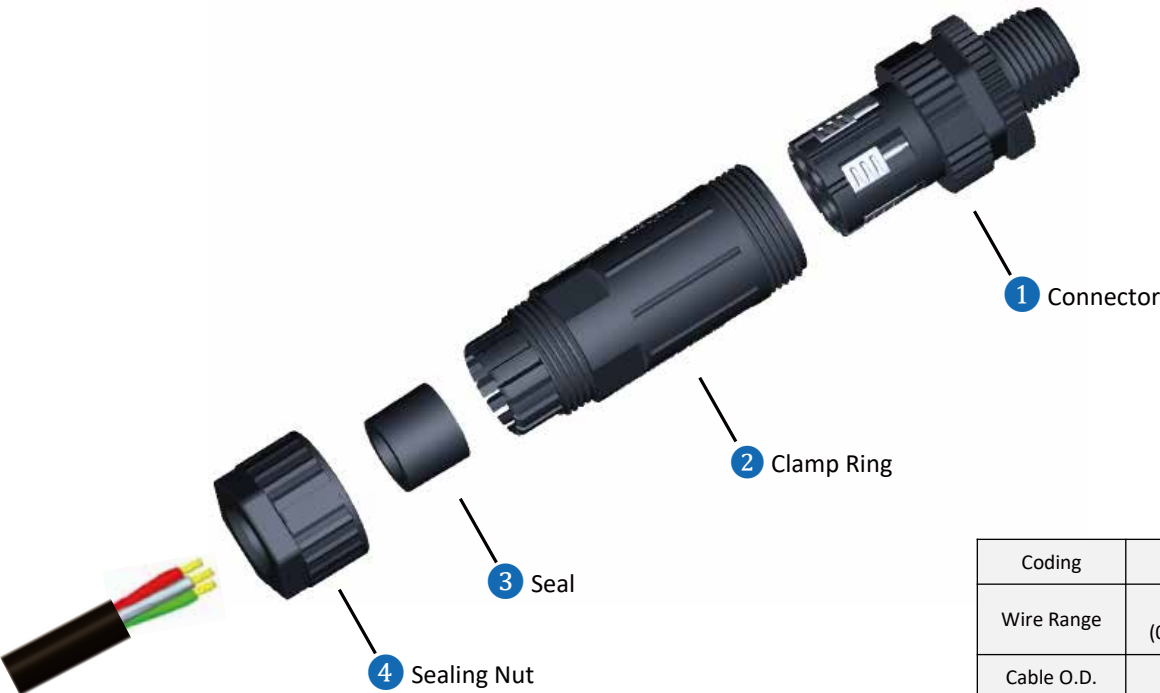
Follow suggested stripping length of (A) Jacket and (C) fold braid. Then insert cable through ② until you cannot push cable further.



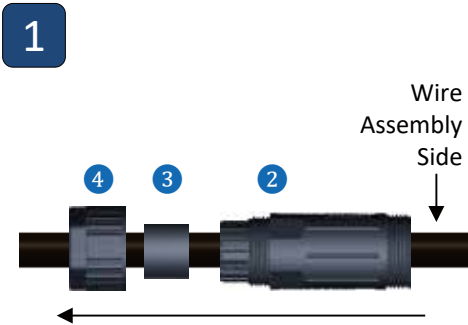
Rotate the cable and adjust the wire position by the color coding on ②, and place wires on cable holder accordingly. Cut off all the exceeding wires and the remaining wires should be less than 0.2mm.



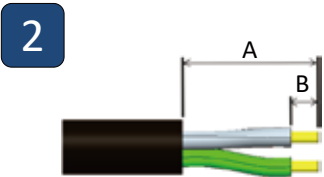
Follow the order ② → ①, ③ → ②, ④ → ① to assemble all components, make sure Arrow Key on ① and Groove on ② are aligned (See red circle). Tighten ④ onto ① and leave no gap.



Coding	M12 A Code
Wire Range	24 ~ 22AWG (0.25 ~ 0.34 mm ²)
Cable O.D. (Unit: mm)	4.0 ~ 7.5

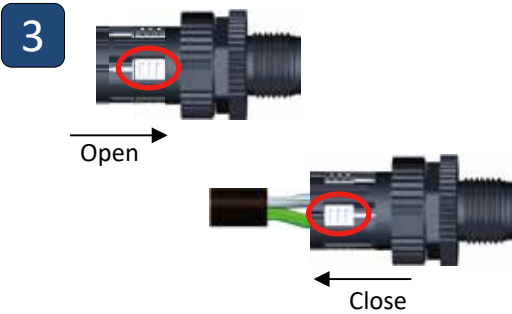


Follow the order from 4 to 2 and put components through cable accordingly, no need to assemble here.

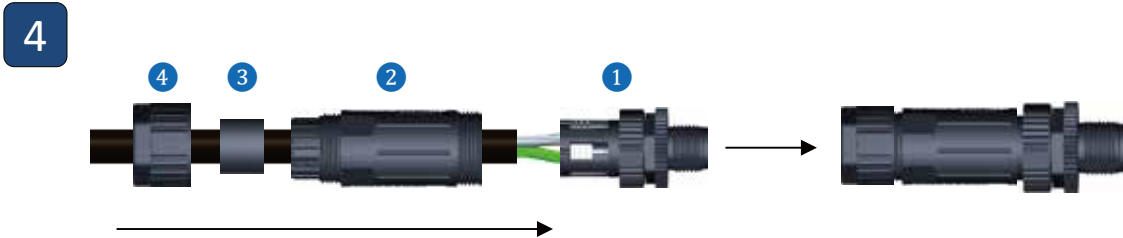


	Unit: mm
(A) Jacket	18.0 ~ 20.0
(B) Insulation	7.0 ~ 8.0

Follow suggested stripping length of (A) Jacket, (B) Insulation.

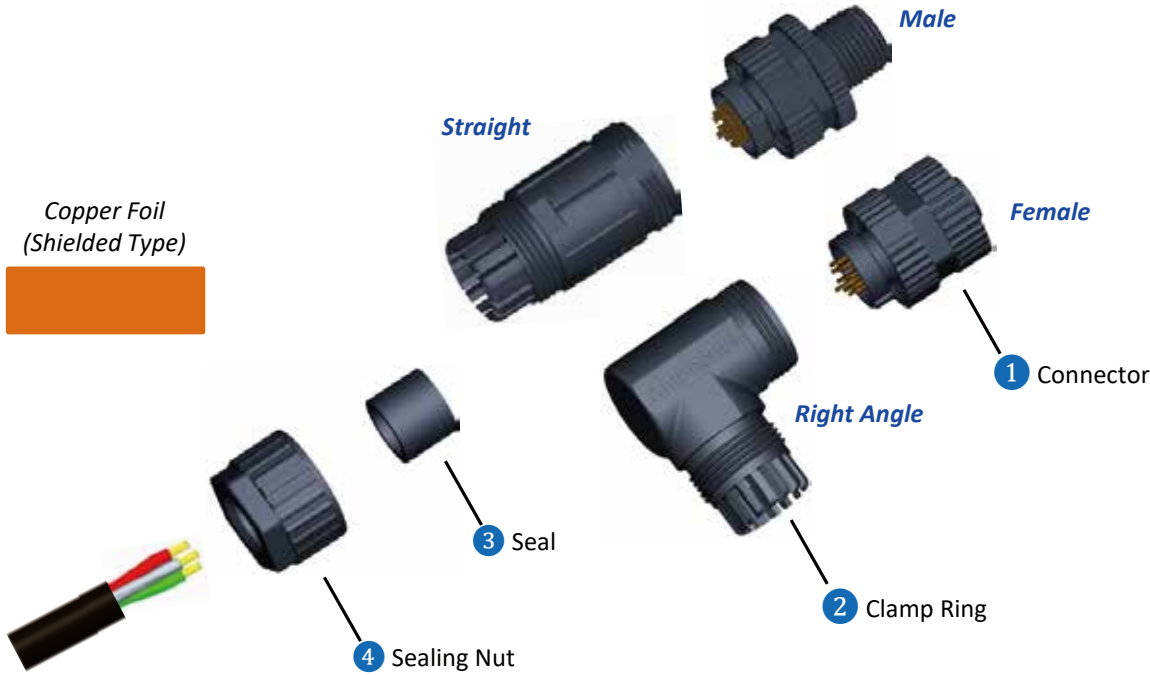


Make sure all latches are open (See figure above). Insert wires until the conductors are completely covered, and push latches backward to close.

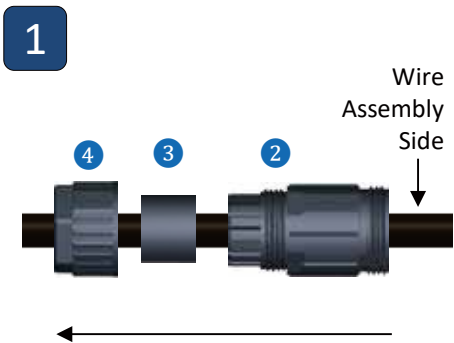


Follow the order 2 → 1, 3 → 2, 4 → 2 to assemble all components. And tighten 1 & 2, 2 & 4 with suggested torque force.

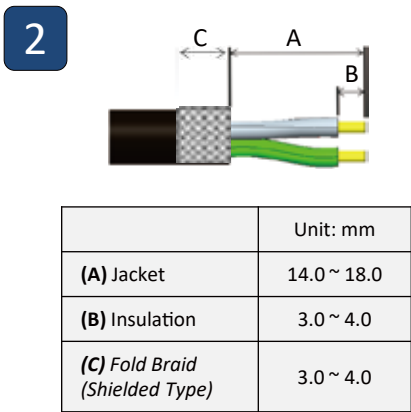
	1 & 2	2 & 4
Torque Force (Unit: kgf-cm)	3.0 ~ 4.0	6.0 ~ 8.0



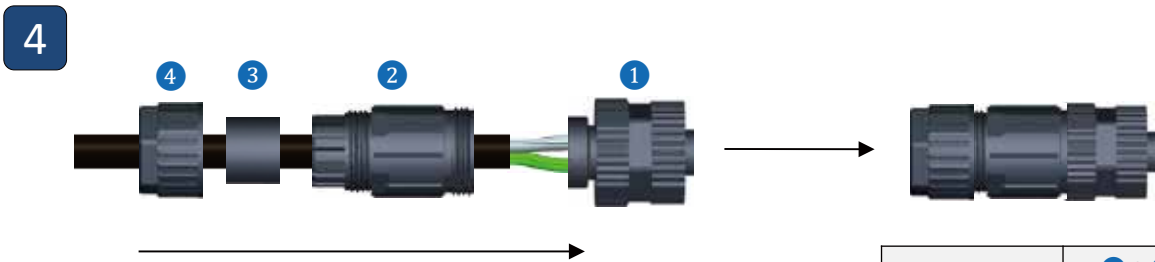
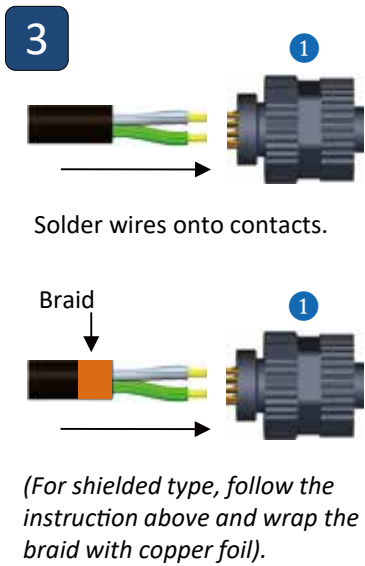
Coding	M12 A / B / D Code	M12 A Code	
Contact #	3 ~ 5 Pin	6 ~ 8 Pin	10 ~ 12 Pin
Wire Range	22 ~ 20 AWG (0.34 ~ 0.50 mm ²)	24 ~ 22 AWG (0.25 ~ 0.34 mm ²)	26 ~ 24 AWG (0.14 ~ 0.25 mm ²)
Cable O.D. (Unit: mm)	4.5 ~ 6.5	4.5 ~ 6.5	4.0 ~ 8.0



Follow the order from 4 to 2 and put components through cable accordingly, no need to assemble here.



Follow suggested stripping length of (A) Jacket, (B) Insulation, (C) Fold Braid (For shielded type).

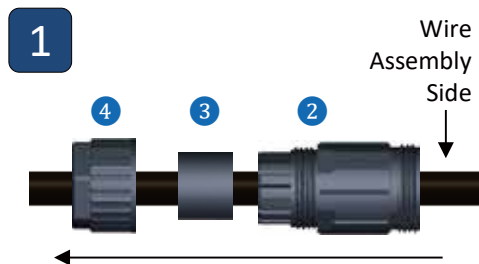


Follow the order 2 → 1, 3 → 2, 4 → 2 to assemble all components. And tighten 1 & 2, 2 & 4 with suggested torque force.

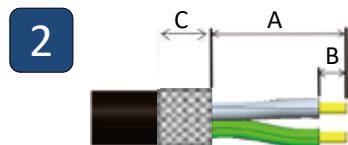
	1 & 2	2 & 4
Torque Force (Unit: kgf-cm)	3.0 ~ 4.0	6.0 ~ 8.0



Coding	M8 A Code	M12 A / B / D Code	M12 A Code	M12 S / T Code	M12 K / L Code
Contact #	3 ~ 4 Pin	3 ~ 5 Pin	6 ~ 8 Pin	4 Pin	5 Pin
Wire Range	24 ~ 22 AWG (0.25 ~ 0.34 mm ²)	22 ~ 20 AWG (0.34 ~ 0.50 mm ²)	26 ~ 24 AWG (0.14 ~ 0.25 mm ²)	20 ~ 16 AWG (0.50 ~ 1.50 mm ²)	16 ~ 14 AWG (1.50 ~ 2.50 mm ²)
Cable O.D. (Unit: mm)	4.5 ~ 6.5	4.5 ~ 6.5	4.5 ~ 8.0	8.0 ~ 10.0	8.0 ~ 10.0 (Black Seal) 10.1 ~ 12.0 (Gray Seal) 12.1 ~ 14.0 (Black Seal)

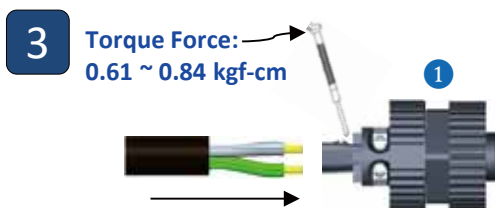


Follow the order from ④ to ② and put components through cable accordingly, no need to assemble here.

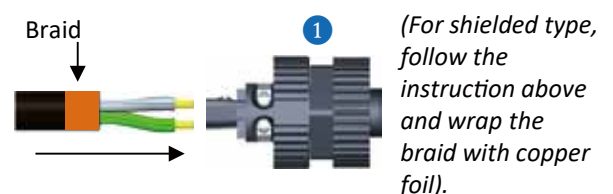


Follow suggested stripping length of (A) Jacket, (B) Insulation, (C) Fold Braid (For shielded type).

	M8	M12 A / B / D Code	M12 S / T Code	M12 K / L Code
(A) Jacket	8.0 ~ 12.0	14.0 ~ 18.0	28.0 ~ 32.0	29.0 ~ 31.0
(B) Insulation	3.0 ~ 4.0	5.0 ~ 6.0	8.0 ~ 9.0	5.0 ~ 6.0
(C) Fold Braid (Shielded Type)	-	5.0 ~ 6.0	-	-



Insert wires into contacts until the conductors are completely covered. Then tighten the screw by screw driver.



Follow the order ② → ①, ③ → ②, ④ → ② to assemble all components. And tighten ① & ②, ② & ④ with suggested torque force.

	① & ②	② & ④
Torque Force (Unit: kgf-cm)	3.0 ~ 4.0	6.0 ~ 8.0

Cable List

Item No.	Jacket	Color	UL No.	Cable Specification	Cable OD	Copper Index (kg/km)	Weight (kg/km)
WCA00011181	PVC	Black	SJTW	12AWG*2C+Filler	10.70	60.80	163.10
WCA00011226	PVC	Black	SJTW	12AWG*3C	11.20	89.60	222.90
WCA00011182	PVC	Black	SJTW	12AWG*3C+Filler	11.70	89.85	207.67
WCA00011243	PVC	Black	UL2464	12AWG*3C+Filler	10.00	90.00	164.40
WCA00011242	PVC	Black	UL2464	12AWG*4C+Filler	11.00	120.40	228.70
WCA00012002	PVC	Black	SJTW	12AWG*4C+Filler	12.30	122.00	293.00
WCA00011183	PVC	Black	SJTW	12AWG*5C+Filler	13.60	149.50	328.90
WCA00010846	PVC	Black	UL1277, UL1581&UL83	14AWG*3C	9.70	53.80	134.20
WCA0485XX01	PVC	Black	UL2464	14AWG*3C+Talcum	7.00	55.80	100.10
WCA00011884	PU	Black	UL20234	14AWG*5C+Filler+Paper	10.00	115.70	180.00
WCA00012012	PU	Black	UL20234	14AWG*5C+Filler+Paper	10.00	115.70	180.00
WCA00011201	PVC	Black	UL21388	16AWG*2C+AL/Mylar	8.20	23.80	60.20
WCA00011206	PVC	Black	SJTW	16AWG*2C+Filler	8.20	24.25	85.10
WCA0264UV01	PVC	Black	UL2464	16AWG*2C+Talcum	5.80	23.80	57.70
WCA00010942	PVC	Black	UL2464	16AWG*2C+Talcum	7.80	24.20	95.00
WCA00010625	PVC	Black	UL2464	16AWG*3C+AL.Mylar+Drain	7.50	46.80	96.60
WCA00011202	PVC	Black	UL21388	16AWG*3C+AL/Mylar	8.60	35.70	71.50
WCA0579UV01	PVC	Black	UL2464	16AWG*3C+Drain+AL.Mylar	7.50	46.70	97.90
WCA00011207	PVC	Black	SJTW	16AWG*3C+Filler	8.60	36.02	105.21
WCA0285UV01	PVC	Black	UL2464	16AWG*4C+AL.Mylar	7.50	47.60	99.90
WCA00011203	PVC	Black	UL21388	16AWG*4C+AL/Mylar	9.30	47.60	88.40
WCA00011208	PVC	Black	SJTW	16AWG*4C+Filler	9.30	49.00	131.50
WCA00011204	PVC	Black	UL21388	16AWG*5C+AL/Mylar	10.70	59.40	99.80
WCA0263UV01	PVC	Black	UL2464	16AWG*5C+Talcum	7.80	59.50	108.80
WCA00011205	PVC	Black	UL21388	16AWG*6C+AL/PET	11.70	71.30	123.30
WCA0582UV01	PVC	Black	UL2464	16AWG*6C+Filler+Drain+AL.Mylar	9.50	82.10	153.60
WCA0583UV01	PVC	Black	UL2464	16AWG*7C+Drain+AL.Mylar	9.50	93.60	175.70
WCA00011299	PVC	Black	UL2464	18AWG*10C	9.00	77.00	145.00
WCE00010070-43	PVC	Black	UL21996	18AWG*2C+Talcum	3.4*5.3	14.82	36.97
WCE00010074-43	PVC	White	UL21996	18AWG*2C+Talcum	3.4*5.3	14.82	36.97
WCA00010897	PVC	Black	UL1277, UL15, 81&UL83	18AWG*3C	8.50	21.30	81.93
WCA00011209	PVC	Black	SJTW	18AWG*3C+Filler	8.00	21.30	81.93
WCA00010898	PVC	Black	UL1277, UL15, 81&UL83	18AWG*4C	9.20	35.00	125.00
WCE00010071-43	PVC	Black	UL21996	18AWG*4C+Talcum	3.4*9.2	29.64	68.14
WCE00010075-43	PVC	White	UL21996	18AWG*4C+Talcum	3.4*9.2	29.64	68.14
WCA00011240	PVC	Black	UL2464	20AWG*10C+AL.Mylar+Filler	9.00	48.00	116.40
WCA00011192	PVC	Black	UL21388	20AWG*10C+AL/Mylar	8.50	48.00	109.70
WCA00011436	PVC	Black	UL2464	20AWG*12C+AL.Mylar+Filler	9.00	57.60	125.10
WCA00011193	PVC	Black	UL21388	20AWG*12C+AL/Mylar	8.50	57.60	121.70
WCA00011200	PVC	Black	UL21388	20AWG*14C+AL/Mylar	8.50	67.20	130.60
WCA0470XX01	PVC	Black	UL2464	20AWG*14C+Braid	9.50	87.90	161.30
WCA0153XX01	PVC	Black	UL2464	20AWG*18C+AL.Mylar	9.50	86.40	154.20
WCA00011581-43	PVC	Black	UL 21996	20AWG*2C	5.20	9.40	34.02
WCA00011194	PVC	Black	UL21388	20AWG*18C+AL/Mylar	10.00	86.40	174.70
WCA00010781	PVC	Black	UL2464	20AWG*2C+AL.Mylar+Braid	5.50	17.70	41.60
WCA00011184	PVC	Black	UL21388	20AWG*2C+AL/Mylar	5.50	9.60	27.40
WCA0124UV01	PVC	Black	UL2464	20AWG*2C+Drain+AL.Mylar	5.80	14.40	48.40
WCE00010072-43	PVC	Black	UL21996	20AWG*2C+Talcum	3.2*5.0	14.10	41.45
WCE00010076-43	PVC	White	UL21996	20AWG*2C+Talcum	3.2*5.0	14.10	41.45
WCA00011580-43	PVC	Black	UL 21996	20AWG*3C	5.50	14.10	41.45
WCA0489UV01	PVC	Black	UL2464	20AWG*3C+AL.Mylar	5.00	14.40	39.30
WCA00010602	PVC	Black	UL2464	20AWG*3C+AL.Mylar+Braid+Drain	5.50	29.20	61.90
WCA00011185	PVC	Black	UL21388	20AWG*3C+AL/Mylar	5.50	14.40	43.70
WCA00011548-43	PVC	Black	UL 21996	20AWG*4C	6.00	18.80	48.46
WCA00011186	PVC	Black	UL21388	20AWG*4C+AL/Mylar	6.00	19.20	51.40
WCA0575UV01	PVC	Black	UL2464	20AWG*4C+Drain+AL.Mylar	5.50	24.00	52.10
WCE00010073-43	PVC	Black	UL21996	20AWG*4C+Talcum	3.2*8.5	18.80	53.34
WCE00010077-43	PVC	White	UL21996	20AWG*4C+Talcum	3.2*8.5	18.80	53.34
WCA00011187	PVC	Black	UL21388	20AWG*5C+AL/Mylar	6.20	24.00	59.20
WCA0576UV01	PVC	Black	UL2464	20AWG*5C+Drain+AL.Mylar	6.00	28.80	62.70
WCA00011188	PVC	Black	UL21388	20AWG*6C+AL/Mylar	6.80	28.80	71.80
WCA0577UV01	PVC	Black	UL2464	20AWG*6C+Drain+AL.Mylar	6.50	33.60	76.80
WCA00011189	PVC	Black	UL21388	20AWG*7C+AL/Mylar	6.80	33.60	75.80
WCA00010049	PVC	Black	UL2464	20AWG*7C+Drain+AL.Mylar	6.50	38.40	74.80
WCA00010550	PVC	Black	UL2464	20AWG*8C+AL.Mylar+Drain+Filler	6.80	43.00	86.00

Cable List

Item No.	Jacket	Color	UL No.	Cable Specification	Cable OD	Copper Index (kg/km)	Weight (kg/km)
WCA00011190	PVC	Black	UL21388	20AWG*8C+AL/Mylar	7.20	38.40	87.00
WCA00011489-28	PVC	Black	UL2464	20AWG*9C+AL.Mylar+Drain	7.40	48.50	101.80
WCA00011191	PVC	Black	UL21388	20AWG*9C+AL/Mylar	7.60	43.20	97.30
WCA00010868	PVC	Black	UL2464	22AWG*2C+Talcum	4.20	6.20	24.60
WCA00011339	PVC	Yellow	UL2517	22AWG*3C	4.50	9.00	31.50
WCA00011343	PU	Black	UL20549	22AWG*3C	3.80	9.00	26.00
WCA00011459-28	PVC	Black	UL2517	22AWG*3C	4.50	9.30	31.00
WCA00010063	PU	Black	NONUL	22AWG*3C+Talcum	4.50	9.00	26.40
WCA0570UV01	PVC	Black	UL2464	22AWG*3C+Talcum	5.00	9.30	35.20
WCA00011340	PVC	Yellow	UL2517	22AWG*4C	4.80	11.70	40.00
WCA00011344	PU	Black	UL20549	22AWG*4C	4.00	12.00	31.80
WCA00011460-28	PVC	Black	UL2517	22AWG*4C	4.80	12.00	38.00
WCA00011813-01	PVC	Black	UL2517	22AWG*4C+AL.Mylar+Braid	5.30	22.00	46.00
WCA00011872	PU	Black	UL20549	22AWG*4C+AL.Mylar+Braid+Paper	5.30	22.00	48.00
WCA00010062	PU	Black	NONUL	22AWG*4C+Insulation	4.80	12.00	29.40
WCA0571UV01	PVC	Black	UL2464	22AWG*4C+Talcum	5.00	12.40	38.60
WCA00011341	PVC	Yellow	UL2517	22AWG*5C	5.10	15.50	43.80
WCA00011687-01	PVC	Black	UL2517	22AWG*5C+AL.Mylar+Filler+Braid	5.70	26.00	58.00
WCA00011345	PU	Black	UL20549	22AWG*5C+Filler	4.40	15.00	43.50
WCA00011461-28	PVC	Black	UL2517	22AWG*5C+Filler	5.10	15.00	43.00
WCA00011870	PU	Black	UL20549	22AWG*5C+Filler+AL.Mylar+Braid+Paper	5.70	26.00	51.00
WCA00012245	PU	Black	UL20549	22AWG*5C+Filler+Paper	5.60	19.00	51.00
WCA00010061	PU	Black	NONUL	22AWG*5C+Filler+Talcum+Paper	5.00	15.50	38.50
WCA0352XX02	PU	Black	NONUL	22AWG*5C+Talcum	5.00	15.50	47.50
WCA0521UV01	PVC	Black	UL2464	22AWG*5C+Talcum	5.50	15.50	47.50
WCA0556UV01	PVC	Black	UL2464	24AWG*10C+Drain+AL.Mylar	6.50	22.00	63.80
WCA0557UV01	PVC	Black	UL2464	24AWG*12C+Drain+AL.Mylar	7.00	26.00	72.30
WCA0558UV01	PVC	Black	UL2464	24AWG*14C+Drain+AL.Mylar	7.00	30.00	77.10
WCA0465UV01	PVC	Black	UL2464	24AWG*15C+Drain+AL.Mylar	7.00	32.00	77.60
WCA0560UV01	PVC	Black	UL2464	24AWG*18C+Drain+AL.Mylar	8.00	38.00	100.70
WCA0284UV01	PVC	Black	UL2464	24AWG*25C+Drain+AL.Mylar	9.00	51.90	130.90
WCA0072UV01	PVC	Black	UL2464	24AWG*2C+Drain+AL.Mylar	4.20	6.00	24.00
WCA0027UV01	PVC	Black	UL2464	24AWG*2C+Talcum	4.20	4.00	22.70
WCA00010114	PVC	Black	UL2464	24AWG*37C+Drain+AL/Mylar	9.50	74.00	153.20
WCA00011746-03	PVC	Black	UL2517	24AWG*3C+AL.Mylar+Braid	4.60	13.10	31.30
WCA0549UV01	PVC	Black	UL2464	24AWG*3C+Drain+AL.Mylar	4.50	8.00	29.00
WCA0006UV01	PVC	Black	UL2464	24AWG*3C+Talcum	4.50	6.00	27.70
WCA00011726-03	PVC	Black	UL2517	24AWG*4C+AL.Mylar+Braid	5.00	16.40	38.50
WCA0219UV01	PVC	Black	UL2464	24AWG*4C+Drain+AL.Mylar	5.80	10.00	45.60
WCA0036UV01	PVC	Black	UL2464	24AWG*4C+Talcum	5.00	8.00	32.40
WCA00011584-43	PVC	Black	UL21996	24AWG*5C	5.50	9.88	41.20
WCA0551UV01	PVC	Black	UL2464	24AWG*5C+Drain+AL.Mylar	5.00	12.00	37.00
WCA0229UV01	PVC	Black	UL2464	24AWG*5C+Talcum	5.00	10.00	34.40
WCA00011583-43	PVC	Black	UL21996	24AWG*6C	5.80	11.86	45.21
WCA00011214	PVC	Black	UL2464	24AWG*6C+AL.Mylar	5.00	12.00	39.40
WCA0217UV01	PVC	Black	UL2464	24AWG*6C+Drain+AL.Mylar	5.80	14.00	45.00
WCA00011479-28	PVC	Black	UL2517	24AWG*6C+Filler	5.00	12.00	40.00
WCA00012067	PVC	Black	UL21388	24AWG*6C+Filler+AL.Mylar	5.20	11.40	35.40
WCA00011421	PVC	Yellow	UL2517	24AWG*6C+Filler+Talcum	5.00	17.60	49.20
WCA00011422	PU	Black	UL20549	24AWG*6C+Filler+Talcum	5.00	13.00	34.00
WCA0087UV01	PVC	Black	UL2464	24AWG*7C+Drain+AL/Mylar	5.80	16.00	51.00
WCA00011342	PVC	Yellow	UL2517	24AWG*8C	5.50	15.50	48.00
WCA00011346	PU	Black	UL20549	24AWG*8C	4.80	15.50	35.00
WCA00011462-28	PVC	Black	UL2517	24AWG*8C	5.50	15.50	48.00
WCA00011698-01	PVC	Black	UL2517	24AWG*8C+AL.Mylar+Filler+Braid	5.80	27.00	60.00
WCA0003UV01	PVC	Black	UL2464	24AWG*8C+Drain+AL/Mylar	5.50	18.00	45.70
WCA00012066	PVC	Black	UL21388	24AWG*8C+Filler+AL.Mylar	5.60	15.20	43.40
WCA00011814-01	PU	Black	UL20549	24AWG*8C+Filler+AL.Mylar+Braid+Paper	5.80	26.00	51.00
WCA00012341	PU	Black	UL20549	24AWG*8C+Filler+Paper	6.70	19.00	65.00
WCA0203UV01	PVC	Black	UL2464	24AWG*8C+Talcum	5.50	16.00	45.30
WCA0528UV01	PVC	Black	UL2464	24AWG*9C+Drain+AL.Mylar	6.00	20.00	54.80
WCA0540UV01	PVC	Black	UL2464	26AWG*6C+Drain+AL.Mylar	5.00	9.80	33.70
WCA0543UV01	PVC	Black	UL2464	26AWG*10C+Drain+AL.Mylar	6.00	15.00	50.30
WCA00011400	PU	Black	UL20549	26AWG*10C+Filler	6.00	14.00	48.00
WCA00011401	PVC	Yellow	UL2517	26AWG*10C+Filler	6.00	14.00	52.00

Cable List

Item No.	Jacket	Color	UL No.	Cable Specification	Cable OD	Copper Index (kg/km)	Weight (kg/km)
WCA00011463-01	PVC	Black	UL2517	26AWG*10C+Filler	6.00	14.00	52.00
WCA00011380	PU	Black	UL20549	26AWG*12C	6.00	16.00	47.00
WCA00011402	PVC	Yellow	UL2517	26AWG*12C	6.00	17.00	54.00
WCA00011464-01	PVC	Black	UL2517	26AWG*12C	6.00	17.00	55.00
WCA00011782-01	PVC	Black	UL2517	26AWG*12C+AL.Mylar+Braid	6.40	25.00	63.00
WCA00011871	PU	Black	UL20549	26AWG*12C+AL.Mylar+Braid+Paper	6.40	28.00	60.00
WCA0544UV01	PVC	Black	UL2464	26AWG*12C+Drain+AL.Mylar	6.00	17.60	53.10
WCA0545UV01	PVC	Black	UL2464	26AWG*15C+Drain+AL.Mylar	6.50	21.50	58.70
WCA00012148	PU	Black	UL20549	26AWG*17C+Filler	7.00	23.00	63.00
WCA00012173	PVC	Yellow	UL2517	26AWG*17C+Filler	7.00	24.00	73.00
WCA00012149	PVC	Black	UL2517	26AWG*17C+Filler	7.00	24.00	68.00
WCA00012151	PVC	Black	UL2517	26AWG*17C+Filler+AL.Mylar+Braid	7.50	40.00	91.00
WCA00012150	PU	Black	UL20549	26AWG*17C+Filler+AL.Mylar+Braid+Paper	7.50	39.00	80.00
WCA00010045	PVC	Black	UL2464	26AWG*22C+Drain+AL.Mylar	7.50	29.90	78.10
WCA0546UV01	PVC	Black	UL2464	26AWG*26C+Drain+AL.Mylar	8.00	35.80	91.30
WCA0449UV01	PVC	Black	UL2464	26AWG*31C+Drain+AL.Mylar	9.00	42.30	117.40
WCA0481UV01	PVC	Black	UL2464	26AWG*3C+Drain+AL.Mylar	4.00	5.20	22.40
WCA0547UV01	PVC	Black	UL2464	26AWG*44C+Drain+AL.Mylar	10.50	59.20	157.10
WCA0487UV01	PVC	Black	UL2464	26AWG*4C+Drain+AL.Mylar	4.80	7.20	30.80
WCA0486UV01	PVC	Black	UL2464	26AWG*5C+Drain+AL.Mylar	4.80	8.50	33.00
WCA00011480-01	PU	Black	-	CAT.5E 22AWG*2P+Drain+Filler+AL.Mylar	6.20	14.00	44.00
WCA00011527-17	LSZH	Green	-	CAT.6A S/FTP 26AWG*4P+AL/Polyester+Braid	6.60	17.99	47.08
WCA00010840	PVC	Black	-	CAT5E FTP 24AWG*4P+Mylar+D+AL.Mylar	6.50	17.97	47.34
WCA0373XX01	PVC	Beige	-	CAT5E FTP 24AWG*4P+Mylar+D+AL.Mylar	6.00	18.00	41.80
WCA0664UV01	PVC	Black	-	CAT5E FTP 24AWG*4P+Mylar+D+AL/Mylar	6.50	18.00	52.30
WCA0459XX01	PVC	Beige	-	CAT5E S-FTP 24AWG*4P+Mylar+AL.Mylar+D+B	6.10	30.97	55.00
WCA0663UV01	PVC	Black	-	CAT5E UTP 24AWG*4P	6.00	16.00	49.40
WCA00011688-03	PVC	Yellow	-	CL2 22AWG*2C+AL.Mylar+Drain+Braid	5.80	16.70	49.80
WCA0611XX01	PVC	Black	-	SJTW 14AWG*3C	9.50	56.70	154.50
WCA00010369	PVC	Black	-	STOOW 16AWG*4C	10.60	49.00	181.00
WCA00010899	PVC	Black	UL1277,UL1581,UL83	14AWG*3C+16AWG*1C	10.30	68.48	172.00
WCA00011252	PU	Black	UL20549	18AWG*2C+22AWG*4C+Filler+Paper	6.00	27.50	63.00
WCA00011253	PU	Black	UL20549	18AWG*2C+22AWG*6C+Filler+Paper	7.40	33.60	83.00
WCA00011254	PU	Black	UL20549	18AWG*2C+22AWG*8C+Filler+Paper	8.20	40.00	98.00
WCA00011582-43	PVC	Black	UL 21996	20AWG*2C+20AWG*3C	6.00	15.33	50.21
WCA0585UV01	PVC	Black	UL2464	24AWG*4C+20AWG*2C+Drain+AL.Mylar	6.00	22.40	57.40
WCA0042UV01	PVC	Black	UL2464	24AWG*6C+20AWG*2C+Drain+AL.Mylar	6.00	26.20	58.50
WCA0584UV01	PVC	Black	UL2464	26AWG*6C+24AWG*2C+Drain+AL.Mylar	5.50	13.70	42.80
WCA0365UV01	PVC	Black	-	28AWG*1P+24AWG*2C+AL.Mylar+Drain+Braid (USB2.0)	5.00	11.90	35.10
WCA00012165	PVC	Black	UL2725	28AWG*1P+28AWG*2C+AL.Mylar+Drain+Braid	3.80	10.00	21.00
WCA0691XX01	PVC	Black	UL2725	28AWG*1P+28AWG*3C+AL.Mylar+Drain+Braid	3.80	10.40	23.20
WCA00010259	PVC	Black	UL20276	[(18AWG*1P+AL)+(16AWG*1P+AL)]+Drain+AL+Braid	10.00	73.00	152.00
WCA00011922	PVC	Black	UL21996	(20AWG*1P+Drain+AL.Mylar)+16AWG*3C+Filler+AL.Mylar	8.50	50.61	115.27
WCA00010258	PVC	Black	-	[(22AWG+1P+AL)+(18AWG+1P+AL)]+Drain+AL.Mylar+Braid	7.00	42.00	80.00
WCA00010876	PVC	Black	UL2586	(24AWG*1P+A)*2C+16AWG*3C+EA	10.00	47.00	128.00
WCA00010257	PVC	Black	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+AL.Mylar+Braid	6.00	27.00	58.00
WCA00011350	PVC	Black	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+AL.Mylar+Braid	6.70	29.70	65.80
WCA00010437	PVC	Gray	-	[(24AWG+1P+AL)+(22AWG+1P+AL)]+Drain+Braid+Mylar	7.10	14.80	69.80
WCA00010080	PVC	Black	UL2464	(24AWG*25C+Mylar)+24AWG*25C+Drain+AL.Mylar	12.00	110.00	285.00
WCA00010710	PVC	Black	UL2464	(24AWG*2P+Drain+AL)+16AWG*3C+Filler+Paper	12.00	45.70	179.10
WCA00011923	PVC	Black	UL21996	(24AWG*2P+Drain+AL.Mylar)+12AWG*3C+Filler+AL.Mylar	11.50	99.97	187.20
WCA00010635	PVC	Black	UL2464	(24AWG*4P+Drain+AL)+16AWG*3C+Filler+Paper	11.00	41.70	149.70
WCA00010264	PVC	Black	UL20276	(26AWG*1P+Drain+AL.Mylar)*4C+26AWG*1P+26AWG*5C+AL.Mylar+Braid	8.50	45.50	94.30
WCA00011530-43	PVC	Black	UL21996	(26AWG*2P+AL.Mylar)+16AWG*2C+Filler+AL.Mylar	9.30	28.54	106.26
WCA00011531-43	PVC	Black	UL21996	(26AWG*2P+Drain+AL.Mylar)+16AWG*3C+Filler+AL.Mylar	11.00	41.58	146.60
WCA00011532-43	PVC	Black	UL21996	(26AWG*4P+Drain+AL.Mylar)+12AWG*3C+Filler+AL.Mylar	13.50	101.34	269.21
WCA00012137	PVC	Black	UL2725	(28AWG*1P+DAM)*2+28AWG*1P+28AWG*2C+Filler+AL.Mylar+Drain+Braid	6.00	21.80	48.20
WCA00010095	PVC	Black	UL20276	(28AWG*1P+Drain+AL+Mylar)*4C+(1P+3C)*28AWG+AL+Braid	7.30	33.90	73.70
WCA00010097	PVC	Black	UL20276	(28AWG*1P+Drain+AL+Mylar)*7C+28AWG*1P+28AWG*3C+AL+Braid	8.50	41.40	90.90
WCA00010081	PVC	Black	UL2464	[(28AWG*28C+Mylar)+28AWG*22C+Mylar]+28AWG*28C+Drain+AL	13.00	63.70	238.40
WCA00010096	PVC	Black	UL20276	[3COAX+(28AWG*1P+Drain+AL.Mylar+Mylar)*4+28AWG*1P+28AWG*6C]+AL.Mylar+Braid	8.50	53.50	93.10
WCA00010098	PVC	Black	UL20276	[3COAX+(28AWG*1P+Drain+AL+Mylar)*7+28AWG*1P+28AWG*6C]+AL+Braid	10.00	71.00	145.50
WCA00011960	PU	Black	UL20233	5C*2.5mm ² +Filler+Paper	10.20	116.00	191.00
WCA00011175	PU	Black	UL20549	8C*0.34mm ² +3C*1.0mm ² +Filler	8.60	54.00	116.00
WCA00011176	PU	Black	UL20549	16C*0.34mm ² +3C*1.0mm ² +Filler	9.70	79.00	161.00

Power-limited Circuit Cable

Specifications

- Rated Voltage: 300V
- Temperature Range: FEP: 70°C
PVC: 60°C, 75°C
- Test Voltage: 900V AC at 2 seconds
- Conductor Range: 28AWG ~ 10AWG
- Conductor Material Available: Standard Bare Copper
- Insulator Material Available: FEP/PVC
- Jacket Material: FEP/PVC
- O.D. Tolerance: > Ø17.8 mm



(UL) E489959-N CLXX XX AWG XX°C 300V

CLXX: UL13 Cable Type
 • Plenum Rated: (2P), (3P)
 • Riser Rated: (2R), (3R)
 • General Rated: (2), (3)
 • Residential Rated: (2X), (3X)

XX°C: Temperature Rating
 • FEP: (70)
 • PVC: (60), (75)

Features & Applications:

Type	Fire Resistance Level	UL Standard	CSA	Application
CL3P CL2P	Plenum Rated (Highest)	UL 910, CMP	FT6	• Ducts or plenums air handling space
CL3R CL2R	Riser Rated	UL 1666, CMR	-	• Vertical shafts in non-plenum areas • Cable runs through more than one floor
CL3 CL2	General Purpose Rated	UL 1685, CMG/CM	FT4	• Power-limited circuit cable in non-plenum areas • Cable runs within one floor
CL3X CL2X	Residential Rated (Lowest)	VW-1, CMX	-	• Enclosed in non-plenum raceway or noncombustible tubing • Cable runs within one floor

Notes: UL File Number E489959; round or flat cable available

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Part Number		WCA00011262	WCA00011263	WCA00011435	WCA00011282	WCA00011283*	WCA00011272	WCA00011324
Cable Type		CL3P	CL3P	CL3P	CL3P	CL3P	CL3P	CL3P
Conductor	AWG	10	16	16	16	16	18	22
	No.	2	2	2	8	16	2	2
	Dia.	2.6	1.3	1.3	1.3	1.3	1.02	0.64
Insulation	Nom. Thick.	0.25mm	0.27mm	0.27mm	0.27mm	0.27mm	0.27mm	0.25mm
	Nom. Dia.	3.5±0.1mm	2.00±0.1mm	2.00±0.1mm	2.00±0.1mm	2.00±0.1mm	1.62±0.10mm	1.12±0.05mm
Jacket	Nom. Thick.	0.8mm	0.58mm	0.58mm	0.69mm	0.56mm	0.42mm	0.46mm
	Nom. Dia.	8.8±0.3mm	5.2±0.3mm	5.2±0.3mm	8.0±0.3mm	11.0±0.5mm	4.4±0.15mm	3.4±0.15mm
Conductor Resistance at 20°C (Max.)		3.41Ω/km	13.7Ω/km	13.7Ω/km	13.7Ω/km	13.7Ω/km	21.9Ω/km	55.4Ω/km

* Upon Request

Other cable types and customization are available upon request.

UL 21996 Multiple-Conductor Cable Using Non-Integral Jacket

Specifications

- Rated Voltage: 300V
- Temperature Range: -40°C ~ 105°C
- Test Voltage: 2000V AC at 1 minute
- Wet Temperature Rating: 60°C (Max.)
- Conductor Range: 30AWG ~ 10AWG
- Conductor Material Available: Tinned Copper
- Insulator Material Available: FEP/PVC
- Shielding Material Available: AL/Mylar: Coverage 100%, Overlap 25% (Min.)
Braid: Tinned Copper, Overlap 65% (Min.)
Spiral: Tinned Copper, Overlap 90% (Min.)
- Jacket Material: PVC
- O.D. Tolerance: > Ø17.8 mm
- Impedance: 100Ω ~ 120Ω ±15Ω



E489039-D AWM 21996 XX AWG -40°C 105°C 300V VW-1 AWM I/II A/B -40°C 105°C 300V FT1 Sun Res Wet 60°C Cable

Application

Internal wiring and external interconnection of electronic equipment. Suitable for outdoor use.

Features

- Reference standard: UL Subject 758, UL1581 & CSA C22.2 No.210.2
- Lead free PVC jacket
- Wide temperature range
- Sunlight resistant
- Passes UL VW-1(horizontal) & CSA FT1 (vertical) flammability tests
- Round or flat cable available
- Mixture, individual or paired conductors available
- UL File Number: E489039

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Single Insulated Conductor Cable

Part Number		WCA00011581-43	WCA00011580-43	WCA00011548-43	WCA00011584-43	WCA00011583-43
Conductor	AWG	20	20	20	24	24
	No.	2	3	4	5	6
	Dia.	0.942mm	0.942mm	0.942mm	0.609mm	0.609mm
Insulation	Nom. Thick.	0.38mm	0.38mm	0.38mm	0.35mm	0.35mm
	Nom. Dia.	1.70±0.10mm	1.70±0.10mm	1.70±0.10mm	1.30±0.07mm	1.30±0.07mm
Shield	Style	-	-	-	-	Paper
	Overlap	-	-	-	-	25%
Conductor Resistance at 20°C (Max.)		34.6 / km	34.6 / km	34.6 / km	93.0 / km	93.0 / km
Jacket	Nom. Thick.	0.98mm	0.92mm	0.95mm	0.92mm	0.95mm
	Nom. Dia.	5.2±0.15mm	5.5±0.20mm	6.0±0.20mm	5.5±0.20mm	5.8±0.20mm

UL 21996 Multiple-Conductor Cable

Using Non-Integral Jacket

Multi-conductor Cable

Part Number		WCA00011532-43		WCA00011530-43		WCA00011531-43		WCA00011582-43	
Component		A	B	A	B	A	B	A	B
Conductor	AWG	12	26	16	26	16	26	20	24
	No.	3	4	2	2	2	2	2	3
	Dia.	2.365mm	0.480mm	1.490mm	0.480mm	1.490mm	0.480mm	0.942mm	0.609mm
Insulation	Nom. Thick.	0.46mm	0.46mm	0.40mm	0.46mm	0.40mm	0.46mm	0.38mm	0.35mm
	Nom. Dia.	3.30±0.15mm	1.40±0.10mm	2.30±0.10mm	1.40±0.10mm	2.30±0.10mm	1.40±0.10mm	1.70±0.10mm	1.30±0.07mm
Shield	Style	-	Al. Mylar	-	Al. Mylar	-	Al. Mylar	-	Paper
	Overlap	-	25%	-	25%	-	25%	-	25%
Drain	AWG	-	26	-	-	-	26	-	-
	Dia.	-	0.480mm	-	-	-	0.480mm	-	-
Conductor Resistance at 20°C (Max.)		5.54 / km	148.0 / km	13.7 / km	148.0 / km	13.7 / km	148.0 / km	34.6 / km	93.0 / km
Jacket	Nom. Thick.	1.65mm		1.65mm		1.65mm		0.9mm	
	Nom. Dia.	13.5±0.40mm		9.3±0.25mm		11.0±0.30mm		6.0±0.20mm	
Impedance		120±15		120±15		120±15		-	

Customization is available upon request.

UL 21388 Jacket Cable

Specifications

- Rated Voltage: 300V
- Temperature Range: ~ 80°C
- Test Voltage: 2000V AC at 1 minute
- Conductor Range: 30AWG ~ 10AWG
- Conductor Material Available: Tinned Copper
- Insulator Material Available: FEP/PVC/PE
- Shielding Material Available: AL/Mylar: Coverage 100%, Overlap 25% (Min.)
Braid: Tinned Copper, Overlap 65% (Min.)
Spiral: Tinned Copper, Overlap 90% (Min.)
- Jacket Material: PVC
- O.D. Tolerance: > Ø17.8 mm
- Impedance: 100Ω ~ 120Ω ±15Ω



E489039-D AWM 21388 XX AWG 80°C 300V VW-1, AWM I/II A/B 80°C 300V FT1 Sun Res Cable

Application

Internal wiring and external interconnection of electronic equipment. Suitable for outdoor use.

Features

- Reference standard: UL Subject 758, UL 1581 & CSA C22.2 No.210.2
- Lead free PVC jacket
- Wide temperature range
- Sunlight resistant
- Passes UL VW-1(horizontal) & CSA FT1 (vertical) flammability tests
- Round or flat cable available
- Mixture, individual or paired conductors available
- UL File Number: E489039

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Part Number		WCA00011201	WCA00011202	WCA00011203	WCA00011204	WCA00011205	WCA00011184
Conductor	AWG	16	16	16	16	16	20
	No.	2	3	4	5	6	2
	Dia.	1.496mm	1.496mm	1.496mm	1.496mm	1.496mm	0.953mm
Insulation	Nom. Thick.	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm
	Nom. Dia.	2.10±0.10mm	2.10±0.10mm	2.10±0.10mm	2.10±0.10mm	2.10±0.10mm	1.50±0.10mm
Shield	Style	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar
	Overlap	25%	25%	25%	25%	25%	25%
Jacket	Nom. Thick.	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm
	Nom. Dia.	6.00±0.20mm	6.50±0.20mm	6.80±0.20mm	7.60±0.20mm	8.40±0.20mm	5.50±0.20mm
Conductor Resistance at 20°C (Max.)		14.7 / km	14.7 / km	14.7 / km	14.7 / km	14.7 / km	36.7 / km

UL 21388 Jacket Cable

Find Our Standard Products

Part Number		WCA00011185	WCA00011186	WCA00011187	WCA00011188	WCA00011189	WCA00011190
Conductor	AWG	20	20	20	20	20	20
	No.	3	4	5	6	7	8
	Dia.	0.953mm	0.953mm	0.953mm	0.953mm	0.953mm	0.953mm
Insulation	Nom. Thick.	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm
	Nom. Dia.	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm
Shield	Style	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar
	Overlap	25%	25%	25%	25%	25%	25%
Jacket	Nom. Thick.	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm
	Nom. Dia.	5.50±0.20mm	6.00±0.20mm	6.20±0.20mm	6.80±0.20mm	6.80±0.20mm	7.20±0.20mm
Conductor Resistance at 20°C (Max.)		36.7 / km	36.7 / km	36.7 / km	36.7 / km	36.7 / km	36.7 / km

Part Number		WCA00011191	WCA00011192	WCA00011193	WCA00011200	WCA00011194
Conductor	AWG	20	20	20	20	20
	No.	9	10	12	14	18
	Dia.	0.953mm	0.953mm	0.953mm	0.953mm	0.953mm
Insulation	Nom. Thick.	0.23mm	0.23mm	0.23mm	0.23mm	0.23mm
	Nom. Dia.	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm	1.50±0.10mm
Shield	Style	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar	Al. Mylar
	Overlap	25%	25%	25%	25%	25%
Jacket	Nom. Thick.	0.76mm	0.76mm	0.76mm	0.76mm	0.76mm
	Nom. Dia.	7.60±0.20mm	8.50±0.25mm	8.50±0.25mm	8.50±0.20mm	10.0±0.30mm
Conductor Resistance at 20°C (Max.)		36.7 / km	36.7 / km	36.7 / km	36.7 / km	36.7 / km

Customization is available upon request.

UL 2464 Multiple-Conductor Cable Using Non-Integral Jacket

Specifications

- Rated Voltage: 300V
- Temperature Range: ~ 80°C
- Test Voltage: 2000V AC at 1 minute
- Conductor Range: 30AWG ~ 10AWG
- Conductor Material Available: Tinned Copper
- Insulator Material Available: FEP/PVC/PE
- Shielding Material Available: AL/Mylar: Coverage 100%, Overlap 25% (Min.)
Braid: Tinned Copper, Overlap 65% (Min.)
Spiral: Tinned Copper, Overlap 90% (Min.)
- Jacket Material: PVC
- O.D. Tolerance: > Ø17.8 mm
- Impedance: 100Ω ~ 120Ω ±15Ω



E489039-D  AWM 2464 XX AWG 80°C 300V VW-1,  AWM I/II A/B 80°C 300V FT1 Cable

Application

Internal wiring and external interconnection of electronic equipment. Suitable for outdoor use.

Features

- Reference standard: UL Subject 758, UL 1581 & CSA C22.2 No.210.2
- Lead free PVC jacket
- Wide temperature range
- Sunlight resistant
- Passes UL VW-1(horizontal) & CSA FT1 (vertical) flammability tests
- Round or flat cable available
- Mixture, individual or paired conductors available
- UL File Number: E489039

Question

Our most popular FAQs will help you to easily find the answers you need.



Q: What connectors can be used for power and signal distribution?

A: Ceres, SENSOR, X-Lok, RBL and HS-Lok connectors. For more detailed information and guide, please refer to our "Product Summary Table".

Q: Can ALTW connectors be used in direct burial?

A: No, they are not designed for this type of application. They should be routed inside a conduit or other means of reinforcement if deployed underground.

Q: Can ALTW connectors be used in continuous water immersion?

A: No, there is a limitation for their immersion to water as defined on each IP rating. Only "Deeptronica" series can be used in permanent immersion.

Q: Why are ALTW connectors called waterproof if they can only be immersed for a certain period? Shouldn't they be called water resistant?

A: As long as the immersion period does not surpass the conditions specified on the IP rating, they can be referred to as waterproof.

Q: What is the Ingress Protection (IP) of ALTW connectors?

A: It ranges from IP65 to IP69K.

Q: Can ALTW connectors be connected/disconnected under load?

A: By default, only connectors for data (RJ45, DVI, HDMI, and USB) can be used in hot-plugging. Power connectors need to be customized to achieve this.

FAQ

Q: Do ALTW connectors comply with MIL STD?

A: No, ALTW connectors are only evaluated under EIA, IEC and UL standards.

Q: What connectors can be used in high-speed base band data transmission?

A: Ceres, X-Lok, M12 D & X-coded, RJ45, DVI, HDMI, USB and FLOS connectors.

Q: Can ALTW connectors be customized to meet certain requirements?

A: Yes, connectors can be customized to meet customer requirements. If a certification is required, it will be applied. If not, ALTW can provide in-house test reports as a confirmation that the pre-defined specifications have been met.

Q: Do ALTW connectors have ATEX certification?

A: No, ALTW connectors are not yet certified by ATEX.

Q: What is the difference between Oleophobic and Hydrophobic protective vents? What is the main function of the vent?

A: These properties refer to the fluid resistance of the membrane in the vent. Hydrophobic means that the membrane is water repelling, while Oleophobic means the membrane is oil repelling.

They are used in applications that require the balancing of internal and external pressures such as electrical cabinets, wireless access points, control hubs and junction boxes. The trapped air inside the enclosures expands or contracts relative to the heat emitted by the components it encloses and the external ambient temperatures.



If your question is not answered here, please contact Amphenol LTW Customer Service or browse our website for more information.
www.amphenolltw.com

Scan here to contact us or e-mail us at sales@ltw-tech.com

UV Resistant

Being resistant to ultraviolet light (UV), or sunlight, means being able to withstand or resist the degradation caused by ultraviolet light. UV light causes non-resistant materials and surfaces to fade or discolor.

Flammability

The ability of a chemical to burn or ignite, causing fire or combustion. The degree of difficulty required to cause the combustion of a chemical is quantified through fire testing.

Flammability can be classified as low (least flame-retarded) to high (most flame-retarded). From lowest to highest it is classified as follows:

- HB - horizontal slow burning: Burning rate under 76mm/min for a thickness below 3mm or the burning stops before 100mm
 - V-2: Burning stops within 30 seconds on a vertical specimen and drips of flaming particles are allowed
 - V-1: Burning stops within 30 seconds on a vertical specimen and drips of particles are allowed as long as they are not inflamed
 - V-0: Burning stops within 10 seconds on a vertical specimen and drips of particles are allowed as long as they are not inflamed
-

IEC

The International Electrotechnical Commission (IEC) is the world's leading organization for the preparation and publication of international standards for all electrical, electronic and related technologies. These are known collectively as “electrotechnology”.

The IEC provides a platform for companies, industries and governments to meet, discuss and develop the international standards they require. All IEC standards are consensus-based and represent the needs of the key stakeholders of every nation participating. Every member country has a vote on what is included into an IEC international standard.

UL 50e

This standard applies to enclosures for electrical equipment intended to be installed and used in non-hazardous locations. It covers additional environmental construction and performance requirements for enclosures.

UL 1863

This standard applies to Safety Communication - circuit Accessories. It covers telecommunications-circuit accessories, such as jack and plug assemblies, quick-connect terminal assemblies, telephone wall plates, telephone extension cords, cross-connect terminal-block assemblies, maintenance terminal modules, terminal enclosures, cable-splice enclosures, network-interface devices, wire-guide assemblies, and connector boxes.

UL 1977

These requirements cover single and multipole connectors intended for factory assembly to copper or copper alloy conductors or printed wiring boards for use in data, signal, control and power applications within and between electrical equipment.

UL 2237

This standard covers multi-point interconnection power cable assemblies. They may consist of power cable assemblies, male or female power cable fittings, panel-mounted power cable/conductor fittings and feeder-tap power cable fittings, referred to as the device in this standard, used with industrial machinery in accordance with the National Fire Protection Association Electrical Standard for Industrial Machinery, NFPA 79 that have system voltages up to and including 1,000 V.

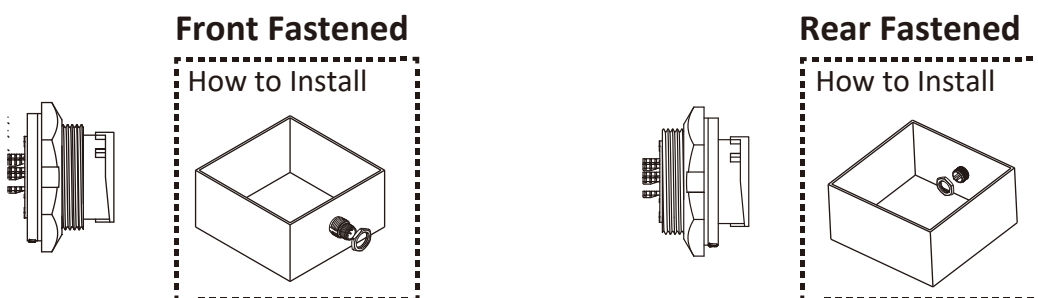
UL 2238

These requirements cover devices intended for inter-connection of equipment, sensors, and actuators in remote-control, signaling, and power-limited circuits. Included are cable assemblies and fittings, feeder-tap cable systems, feed-through connectors, multi-outlet fittings, panel-mount fittings, and splitters. These devices are rated at no more than 60 A and no more than 600 V. These devices are not intended for disconnect means.

LV214

This automotive standard was developed by German car manufacturers Audi, BMW, Daimler, Porsche and Volkswagen. It addresses the ability of terminals to be effectively evaluated by crimp force monitors. The terminals must exhibit certain crimp force to be used in an automotive wire harness.

Fasten Style of Nut



Mating Style

Screw Thread

- Ceres
- RJ45
- Cable Joiner & FICX
- Power
- USB
- M Series
- HDMI
- Cable Gland
- NMEA
- RF
- LED Light Guide
- D-Sub
- DVI
- Vent

2 Points Lock Bayonet

- Ceres
- Power
- USB

3 Points Lock Bayonet

- Ceres
- Power
- RJ45
- Fiber

Push Pull

- M Series
- FLOS & FLOS+
- HS-Lok
- USB

Push Lock With Latches

- RBL
- D-Sub
- SSL

Push Lock

- X-Lok
- USB

Termination Style



PCB 180°



PCB 90°



Solder



Screw In



Crimp



IDC



Push In



SMT

ODVA

ODVA is a global association whose members comprise of world's leading automation companies. ODVA's mission is to advance open, interoperable information and communication technologies in industrial automation. The association recognizes its media independent network protocol, the Common Industrial Protocol or "CIP" – and the network adaptations of CIP – EtherNet/IP, DeviceNet, CompoNet and ControlNet – as its core technology and the primary common interest of its membership.

ODVA's vision is to contribute to the sustainability and prosperity of the global community by transforming the model for information and communication technology in the industrial ecosystem.

NMEA 2000

NMEA 2000 is a protocol used to create a network of electronic devices – mainly marine instruments – on a boat. Various instruments that meet the NMEA 2000 standard are connected to one central cable, known as a backbone. The backbone powers each instrument and relays data among all the instruments on the network. This allows one display unit to show many different types of information and allows the instruments to work together. NMEA 2000 is meant to be "plug and play" to allow devices made by different manufacturers to talk and listen to each other.

Amphenol LTW's IPCS (Intelligent Pre-cabling Systems)

Amphenol LTW Intelligent Pre-Cabling System (IPCS) is your solution for the LED Lighting incorporation in indoor and outdoor applications. With a simplified design and wide flexibility, IPCS solves all your needs for electrical wiring and cabling infrastructure. It also provides large savings in on-site installation time and costs. The concept of IPCS is suitable for ALTW's various connector series, ideal for a large variety of customization.

Amphenol LTW's Power / Data / Hybrid Solutions

We are dedicated to developing interconnect solution to fulfill customer requirements of power or data applications, and as devices increasingly carry more functions in reduced spaces, Hybrid solutions are the answer to space limitation and multi-function. Below is the product series for Power, Data, and Hybrid applications.

0.5A ~ 2A

- Ceres
- X-Lok
- M Series
- D-Sub
- DVI
- HDMI
- USB
- HS-Lok
- FLOS & FLOS+

3A ~ 5A

- Ceres
- X-Lok
- M Series
- D-Sub
- SSL
- RBL
- HS-Lok
- FLOS & FLOS+
- NMEA 2000
- USB

6A ~ 10A

- Ceres
- X-Lok
- M Series
- Power
- Mini
- RBL
- FLOS & FLOS+
- NMEA 2000
- USB
- Cable Joiner & FICX

11A ~ 20A

- Ceres
- X-Lok
- M Series
- Power
- Mini
- RBL
- FLOS & FLOS+
- Cable Joiner & FICX

25A ~ 30A

- M Series
- FLOS & FLOS+
- Power

50A

- X-Lok
- Power

80A

- X-Lok
- Power

120A ~ 150A

- Power

Cross Section Conversion From AWG To mm²

26 AWG	0.14 mm ²	16 AWG	1.50 mm ²	4 AWG	25.00 mm ²
24 AWG	0.25 mm ²	14 AWG	2.50 mm ²	2 AWG	35.00 mm ²
22 AWG	0.34 mm ²	12 AWG	4.00 mm ²	1 AWG	50.00 mm ²
20 AWG	0.50 mm ²	10 AWG	6.00 mm ²	2/0 AWG	70.00 mm ²
18 AWG	0.75 mm ²	8 AWG	10.00 mm ²		
17 AWG	1.00 mm ²	6 AWG	16.00 mm ²		

Ingress Protection (IP) Rating Guide

Waterproof Definition

Unmated Waterproof



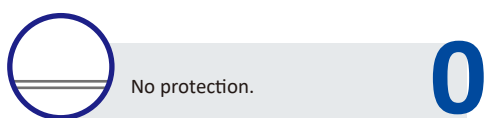
Standalone waterproof or waterproof is assured even without its counterpart. The water will not go through the inner portion of the exposed connector as it is entirely sealed.

Mated Waterproof



Waterproof is only assured when mated and locked tightly to its counterpart.

1st numeral - solid foreign objects



No protection.

0



Protected against solid foreign objects of 50 mm Ø and greater.

1



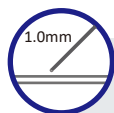
Protected against solid foreign objects of 12,5 mm Ø and greater.

2



Protected against solid foreign objects of 2,5 mm Ø and greater.

3



Protected against solid foreign objects of 1,0 mm Ø and greater.

4



Dust-protected.

5



Dust-tight.

6

Example:



IP 65

Protected against water jets.

Dust-tight.

2nd numeral - water



No protection.

0



Protected against vertically falling water drops.

1



Protected against vertically falling water drops when enclosure tilted up to 15°.

2



Protected against spraying water.

3



Protected against splashing water.

4



Protected against water jets.

5



Protected against powerful water jets.

6



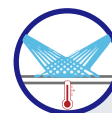
Protected against the effects of temporary immersion in water.

7



Protected against the effects of continuous immersion in water.

8



Protected against high pressure and temperature water jets.

9K

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