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Connection Cables - Power

M12 L-coded Cables

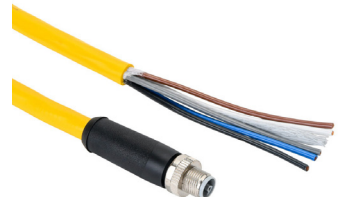
Features

- Resistant to welding sparks
- Flame retardant, chemical resistant
- 600V cable insulation rating
- TPE (thermoplastic elastomer) jacket for typical industrial applications
- PVC (polyvinyl chloride) jacketed cable for general use and chemical washdown applications, ex. food & beverage industry

M12 L-coded Cables									
Part Number	Price	Number of Wires	Connector	Wire Size	Amperage Rating	Cable Jacket/ Wire Insulation Material	Jacket Color	Length m [ft]	Drawing Link
7700-P4241-U0P0200	\$67.00	5	Axial male to axial female	14AWG	16A	Thermoplastic Elastomer (TPE) / Polyvinyl Chloride (PVC)	Yellow	2.0 [6.5]	PDF
7700-P4241-U0P0300	\$79.00							3.0 [9.8]	PDF
7700-P4241-U0P0500	\$102.00							5.0 [16.4]	PDF
7700-P4241-U0P0750	\$131.00							7.5 [24.6]	PDF
7700-P4241-U0P1000	\$160.00							10 [32.8]	PDF
7700-P4241-U0P1500	\$218.00							15 [49.2]	PDF
7700-P4241-U0D0200	\$61.00			16AWG	12A			2.0 [6.5]	PDF
7700-P4241-U0D0300	\$70.00							3.0 [9.8]	PDF
7700-P4241-U0D0500	\$87.00							5.0 [16.4]	PDF
7700-P4241-U0D0750	\$107.00							7.5 [24.6]	PDF
7700-P4241-U0D1000	\$128.00							10 [32.8]	PDF
7700-P4241-U0D1500	\$169.00							15 [49.2]	PDF
7700-P4201-U0P0200	\$42.50		Axial male to pigtail	14AWG	16A			2.0 [6.5]	PDF
7700-P4201-U0P0300	\$54.00							3.0 [9.8]	PDF
7700-P4201-U0P0500	\$76.00							5.0 [16.4]	PDF
7700-P4201-U0P0750	\$103.00							7.5 [24.6]	PDF
7700-P4201-U0P1000	\$130.00							10 [32.8]	PDF
7700-P4201-U0P1500	\$184.00							15 [49.2]	PDF
7700-P4201-U0D0200	\$36.50			16AWG	12A			2.0 [6.5]	PDF
7700-P4201-U0D0300	\$43.50							3.0 [9.8]	PDF
7700-P4201-U0D0500	\$59.00							5.0 [16.4]	PDF
7700-P4201-U0D0750	\$78.00							7.5 [24.6]	PDF
7700-P4201-U0D1000	\$97.00							10 [32.8]	PDF
7700-P4201-U0D1500	\$133.00							15 [49.2]	PDF
7700-P4221-U0P0200	\$42.50		Axial female to pigtail	14AWG	16A			2.0 [6.5]	PDF
7700-P4221-U0P0300	\$52.00							3.0 [9.8]	PDF
7700-P4221-U0P0500	\$72.00							5.0 [16.4]	PDF
7700-P4221-U0P0750	\$98.00							7.5 [24.6]	PDF
7700-P4221-U0P1000	\$122.00							10 [32.8]	PDF
7700-P4221-U0P1500	\$174.00							15 [49.2]	PDF
7700-P4221-U0D0200	\$38.00			16AWG	12A			2.0 [6.5]	PDF
7700-P4221-U0D0300	\$45.50							3.0 [9.8]	PDF
7700-P4221-U0D0500	\$60.00							5.0 [16.4]	PDF
7700-P4221-U0D0750	\$78.00							7.5 [24.6]	PDF
7700-P4221-U0D1000	\$97.00							10 [32.8]	PDF
7700-P4221-U0D1500	\$133.00							15 [49.2]	PDF



7700-P4241 series



7700-P4201 series



7700-P4221 series



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Connection Cables - Power

M12 L-coded Cables Specifications

M12 L-coded Cables Specifications		
Model	7000-xxxxx-U0Pxxxx	7000-xxxxx-U0Dxxxx
Type	5-Wire, 5-Pole	
Max Voltage	63VDC	
Max Current Per Contact	16A	12A
Protection Degree	IP65 / IP67	
Nut Material	Male threads are nickel plated brass; Female threads are nickel plated die cast zinc	
Cable Jacket/Wire Insulation Material	TPE/PVC	
Contacts Material	Copper Alloy	
Tightening Torque	≤ 0.6 N·m [≤ 0.44 ft·lb]	
Conductors Cross Section	2.11 mm ² [14AWG]	1.31 mm ² [16AWG]
Ø Outer Cable	10.5 mm [0.415 in]	9.8 mm [0.385 in]
Temperature Range - Stationary Use	-50 to 105°C [-58 to 221°F]	
Temperature Range - Flexible Use	-20 to 90°C [-4 to 194°F]	
Min Bend Radius	Stationary use: 5 x cable diameter; Flexible use: 10 x cable diameter	
Approvals*	cULus, CE	

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



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Connection Cables - Power

M12 L-coded Adapter Cable and T-Coupler

- Use to convert a 7/8-16 connection to M12 L-coded connection



M12 L-coded to 7/8" Adapter Cable							
Part Number	Price	Number of Wires	Connectors	Jacket		Length m [ft]	Drawing Link
				Material	Color		
7000-P4541-P040200	\$73.00	5	M12 axial female to 7/8" axial male	PUR/PP	Black	2 [6.5]	PDF

[7000-P4541-P040200](#)

Adapter Cable M12 L-coded to 7/8" Specifications	
Type	5-Wire, 5-Pole
Max Voltage	63 VAC/VDC
Max Current	12A
Connection	Connector 1: M12 L-coded axial female Connector 2: 7/8" axial male
Tightening Torque	M12: 0.6 N·m [0.44 ft·lb]; 7/8": 1.5 N·m [1.1 ft·lb]
Conductors Cross Section	1.5mm ² [16AWG]
Locking Material	Male threads are nickel plated brass; Female threads are nickel plated die cast zinc
Protection Degree	IP67
Ø Outer Cable	8.2 mm [0.32 in]
Min Bend Radius	Stationary use: 5 x cable diameter; Flexible use: 10 x cable diameter
Temperature Range - Stationary Use	-50 to 80°C [-58 to 176°F]
Temperature Range - Flexible Use	-25 to 80°C [-13 to 176°F]
Contact Material	Copper Alloy
Agency Approvals *	NA

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

M12 L-coded T-Coupler

M12 L-coded T-Coupler					
Part Number	Price	Number of Poles	Connectors	Wiring	Drawing Link
7000-P4901-0000000	\$111.00	5	Axial male to (2) axial female	1- 1 - 1 2- 2 - 2 3- 3 - 3 4- 4 - 4 FE - FE - FE	PDF

[7000-P4901-0000000](#)

M12 L-coded T-Coupler Specifications	
Type	5-Wire, 5-Pole
Max Voltage	63VDC
Max Current	16A
Connection	M12 L-coded
Tightening Torque	≤ 0.6 N·m [≤ 0.44 ft·lb]
Locking Material	Male threads are nickel plated brass; Female threads are nickel plated die cast zinc
Protection Degree	IP65 / IP67 / IP68
Temperature Range	-30 to 90°C [-22 to 194°F]
Material	Housing (TPU), Contact Carrier (PA), Contact (Brass, gold plated)
Approvals*	cULus, CE

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.



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Field Wireable Connectors - Power

M12 L-coded Connectors

Features

- IP65/IP67 protection rating
- Available with screw or push-lock spring clamp terminal connections

**7000-P4591-0000000****7000-P4611-0000000****7000-P4651-0000000****7000-P4661-0000000**

M12 L-coded Connectors Selector Table

Part Number	Price	Number of Wires, Pins	Connection Type	Conductor Wire	Terminal Connection	Cable Ø Range	Drawing Link
<u>7000-P4591-0000000</u>	\$29.00	5-Wire, 5-Pin	Axial male with male threads	1.5–2.5 mm ² [16–14AWG]	Screw terminal	8–13mm [0.31–0.51 in]	<u>PDF</u>
<u>7000-P4611-0000000</u>	\$29.00		Axial female with female threads				<u>PDF</u>
<u>7000-P4651-0000000</u>	\$37.00		Axial male with male threads	1.5–2.5 mm ² [16–14 AWG]	Push-lock spring clamp	9–13mm [0.35–0.51 in]	<u>PDF</u>
<u>7000-P4661-0000000</u>	\$38.00		Axial female with female threads				<u>PDF</u>

M12 L-coded Connector Specifications

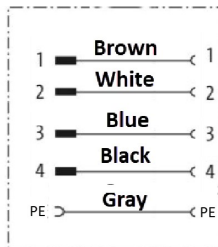
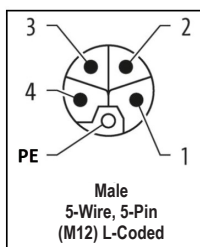
Coding	L-coded	
Model	P4591, P4611	P4651, P4661
Max. Voltage	63V	
Max. Current per Contact	16A	
Protection Degree	IP67	IP65
Temperature Range	-40 to 85°C [-40 to 185°F]	
Wire Connection	Screw terminal; M2.5x0.45 mm ² , torque to 40 N·m [29.5 ft-lb]	Push-lock spring clamp 0.6 N·m [0.44 ft-lb]
Wire Connection Cross Section	1.5 mm ² [16AWG] (with wire end ferrule); 2.5 mm ² [14AWG] (without wire end ferrule)	0.75–2.5 mm ² [18–14AWG] (with wire end ferrule) 1.5–2.5 mm ² [16–14AWG] (without wire end ferrule)
Housing Material	Polyamide (PA)	Nickel-plated brass (NPB)
Locking Material	Male threads are nickel plated brass; Female threads are nickel plated die cast zinc	Brass
Weight	P4591 0.95 oz [27g] P4611 1.94 oz [55g]	P4651 2.6 oz [73.70 g] P4661 3.25 oz [92.13 g]
Approvals*	cURus	cULus

*To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

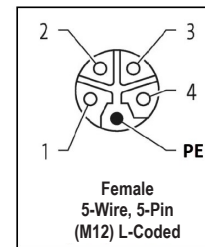
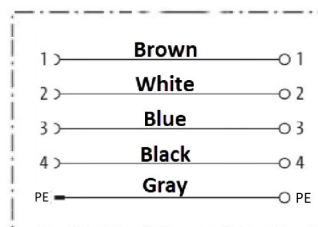
Pin Assignments

LEGEND	
■	MALE PIN ON CONNECTOR
○	FEMALE PIN ON CONNECTOR
(FIELD CONNECTION TERMINAL

Part Numbers: [7000-P4591-0000000](#) and
[7000-P4651-0000000](#)



Part Numbers: [7000-P4611-0000000](#) and
[7000-P4661-0000000](#)

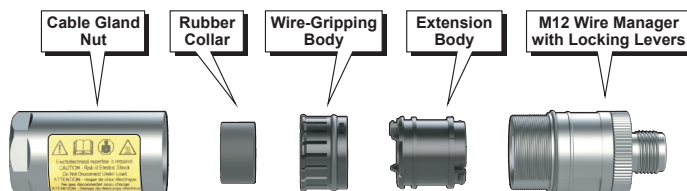




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Field Wireable Connectors - Power

Assembly Instructions for M12 L-coded Push-lock Spring Clamp Connectors



- 1** Using a small screwdriver, push on the plastic M12 end to unseat the wire manager.
- 2** Continue pushing until the wire manager is fully extended.
- 3** Prepare the M12 wire manager using a small screwdriver or fingernail to pry open each locking lever.
- 4** Before stripping cable jacket, install cable gland nut, rubber collar, wire-gripping body, and extension body on cable.
- 5** Remove 39mm of outer jacket from cable and strip 7mm of insulation from individual wires.
- 6** Insert individual wires into the M12 wire manager and close locking levers.
- 7** Fully seat the M12 wire manager.
- 8** Align wire gripper components with key locations and snap together. Slide rubber collar into wire gripper and thread cable gland nut onto M12 wire manager.
- 9** Hand-tighten or use 21mm wrench to tighten cable gland nut to secure M12 wire manager.
- 10** Assembly complete.