



Your Global Automation Partner

# M12 Power Catalog

## L-Code, T-Code and S-Code

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We reserve the right to make technical alterations without prior notice.



## Powerfast | L-code, T-code and S-code Intro

Turck's M12 Power offering provides up to 16 amps of power in a space-saving M12 connector size, enabling a high power distribution system to fit into compact areas. A range of connector codings provide proper installation assurance as each coding is specifically designed for AC or DC voltage applications. Numerous connection types provide your powering needs with a scalable, modular and expandable solution.

### Product Overview

Number of Poles	4,5
Conductor size range	16 AWG
Rated current	Up to 16 A
Rated voltage	63 VDC / 600 VAC
Protection Class	Up to NEMA 1,3,4,6P and IEC IP67 / IP68
Ambient Temperature	From -40C to +90C
Insertion Cycles	>100
Design standard	IEC 61076-2-111
Hardware choices	Nickel Plated Brass 316 Stainless Steel Passivated

### Quick Links:



#### Part Number Key

Find the part number keys on pg 25



#### Installation Guide

M12 Keyway Installation Guide



#### Installation Guide

Cable Installation  
Guide for Power and Control Cables



#### Installation Guide

Ingress Protection  
A Guide to IP and NEMA Type Ratings



#### Technical Information

Changes to NFPA 79

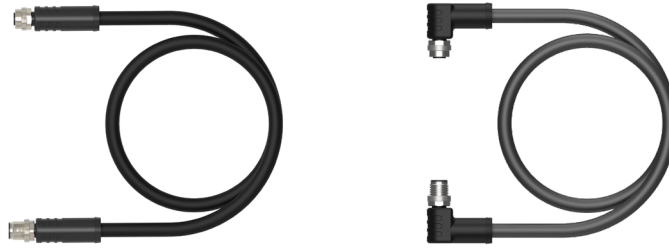


#### Technical Information

Interpreting NFPA 79

Powerfast | M12 Power Cordsets

Power Tray | Exposed Run - 16 AWG PVC cable



Connector Coding	Product Details	Gender	Orientation	Part Number	Wiring Reference	Contact Assignment
L-Code	4 x 16 AWG Cable #RF52537 14 amps 63 V <sub>DC</sub>	Female	Straight	<a href="#">RKP46PL-*</a>	1. BN 2. WH 3. BU 4. BK	<p>Female</p>
		Female	Right Angled	<a href="#">WKP46PL-*</a>		
		Male	Straight	<a href="#">RSP46PL-*</a>		<p>Male</p>
		Male	Right Angled	<a href="#">WSP46PL-*</a>		
		Female/Male	Straight/Straight	<a href="#">RKP46PL-*.RSP46PL</a>		
		Female/Male	Straight/Right Angled	<a href="#">RKP46PL-*.WSP46PL</a>		
		Female/Male	Right Angled/Straight	<a href="#">WKP46PL-*.RSP46PL</a>		
		Female/Male	Right Angled/Right Angled	<a href="#">WKP46PL-*.WSP46PL</a>		
L-Code	5 x 16 AWG Cable #RF52611 14 amps 63 V <sub>DC</sub>	Female	Straight	<a href="#">RKP56PL-*</a>	1. BN 2. WH 3. BU 4. BK 5. GY	<p>Female</p>
		Female	Right Angled	<a href="#">WKP56PL-*</a>		
		Male	Straight	<a href="#">RSP56PL-*</a>		<p>Male</p>
		Male	Right Angled	<a href="#">WSP56PL-*</a>		
		Female/Male	Straight/Straight	<a href="#">RKP56PL-*.RSP56PL</a>		
		Female/Male	Straight/Right Angled	<a href="#">RKP56PL-*.WSP56PL</a>		
		Female/Male	Right Angled/Straight	<a href="#">WKP56PL-*.RSP56PL</a>		
		Female/Male	Right Angled/Right Angled	<a href="#">WKP56PL-*.WSP56PL</a>		
T-Code	4 x 16 AWG Cable #RF52537 12 amps 63 V <sub>DC</sub>	Female	Straight	<a href="#">RKP46PT-*</a>	1. BN 2. WH 3. BU 4. BK	<p>Female</p>
		Female	Right Angled	<a href="#">WKP46PT-*</a>		
		Male	Straight	<a href="#">RSP46PT-*</a>		<p>Male</p>
		Male	Right Angled	<a href="#">WSP46PT-*</a>		
		Female/Male	Straight/Straight	<a href="#">RKP46PT-*.RSP46PT</a>		
		Female/Male	Straight/Right Angled	<a href="#">RKP46PT-*.WSP46PT</a>		
		Female/Male	Right Angled/Straight	<a href="#">WKP46PT-*.RSP46PT</a>		
		Female/Male	Right Angled/Right Angled	<a href="#">WKP46PT-*.WSP46PT</a>		
S-Code	4 x 16 AWG Cable #RF52538 12 amps 600 V <sub>AC</sub>	Female	Straight	<a href="#">RKP46PS-*</a>	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	<p>Female</p>
		Female	Right Angled	<a href="#">WKP46PS-*</a>		
		Male	Straight	<a href="#">RSP46PS-*</a>		<p>Male</p>
		Male	Right Angled	<a href="#">WSP46PS-*</a>		
		Female/Male	Straight/Straight	<a href="#">RKP46PS-*.RSP46PS</a>		
		Female/Male	Straight/Right Angled	<a href="#">RKP46PS-*.WSP46PS</a>		
		Female/Male	Right Angled/Straight	<a href="#">WKP46PS-*.RSP46PS</a>		
		Female/Male	Right Angled/Right Angled	<a href="#">WKP46PS-*.WSP46PS</a>		

\*Length in meters. Standard cable lengths are 2, 4, 6, 8, and 10 meters. Consult factory for other lengths.

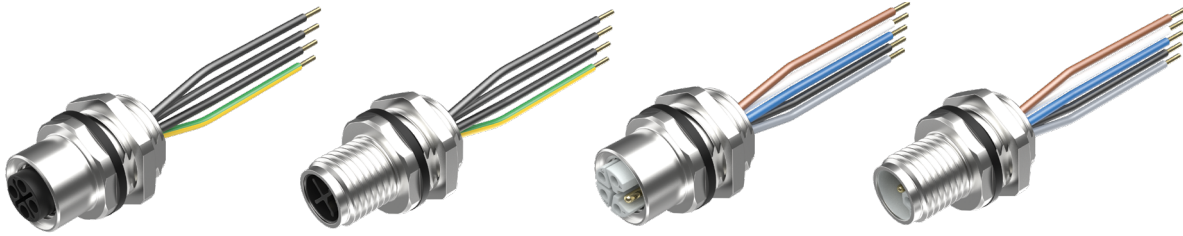
For 316 Stainless steel coupling nut, add V to description (ex: RKPV46PT-\*)

We reserve the right to make technical alterations without prior notice.



# Powerfast | M12 Power Receptacles

16 AWG PVC Conductors



Connector Coding	Product Details	Gender	Mounting Thread	Mounting Orientation	Part Number	Wiring Reference	Contact Assignment
L-Code	4 x 16 AWG 14 amps 63 V <sub>DC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK46PL-*/14.5/NPT</a>	1. BN 2. WH 3. BU 4. BK	4 1 3 2 Female
		Female	M16	Front Mount	<a href="#">FK46PL-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD46PL-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS46PL-*/14.5/NPT</a>		1 4 2 3 Male
		Male	M16	Front Mount	<a href="#">FS46PL-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD46PL-*/M16</a>		
L-Code	4 x 14 AWG 16 amps 63 V <sub>DC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK44PL-*/14.5/NPT</a>	1. BN 2. WH 3. BU 4. BK	4 1 3 2 Female
		Female	M16	Front Mount	<a href="#">FK44PL-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD44PL-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS44PL-*/14.5/NPT</a>		1 4 2 3 Male
		Male	M16	Front Mount	<a href="#">FS44PL-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD44PL-*/M16</a>		
L-Code	5 x 16 AWG 14 amps 63 V <sub>DC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK56PL-*/14.5/NPT</a>	1. BN 2. WH 3. BU 4. BK 5. GY	FE 4 1 3 2 Female
		Female	M16	Front Mount	<a href="#">FK56PL-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD56PL-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS56PL-*/14.5/NPT</a>		FE 1 4 2 3 Male
		Male	M16	Front Mount	<a href="#">FS56PL-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD56PL-*/M16</a>		
L-Code	5 x 14 AWG 16 amps 63 V <sub>DC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK54PL-*/14.5/NPT</a>	1. BN 2. WH 3. BU 4. BK 5. GY	FE 4 1 3 2 Female
		Female	M16	Front Mount	<a href="#">FK54PL-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD54PL-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS54PL-*/14.5/NPT</a>		FE 1 4 2 3 Male
		Male	M16	Front Mount	<a href="#">FS54PL-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD54PL-*/M16</a>		
T-Code	4 x 16 AWG 12 amps 63 V <sub>DC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK46PT-*/14.5/NPT</a>	1. BN 2. WH 3. BU 4. BK	4 1 3 2 Female
		Female	M16	Front Mount	<a href="#">FK46PT-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD46PT-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS46PT-*/14.5/NPT</a>		4 3 1 2 Male
		Male	M16	Front Mount	<a href="#">FS46PT-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD46PT-*/M16</a>		

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# Powerfast | M12 Power Receptacles (continued)

Connector Coding	Product Details	Gender	Mounting Thread	Mounting Orientation	Part Number	Wiring Reference	Contact Assignment
T-Code	4 x 14 AWG 16 amps 63 V <sub>DC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK44PT-*/14.5/NPT</a>	1. BN 2. WH 3. BU 4. BK	
		Female	M16	Front Mount	<a href="#">FK44PT-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD44PT-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS44PT-*/14.5/NPT</a>		
		Male	M16	Front Mount	<a href="#">FS44PT-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD44PT-*/M16</a>		
S-Code	4 x 16 AWG 12 amps 600 V <sub>AC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK46PS-*/14.5/NPT</a>	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	
		Female	M16	Front Mount	<a href="#">FK46PS-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD46PS-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS46PS-*/14.5/NPT</a>		
		Male	M16	Front Mount	<a href="#">FS46PS-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD46PS-*/M16</a>		
S-Code	4 x 14 AWG 16 amps 600 V <sub>AC</sub>	Female	1/2-14 NPT	Front Mount	<a href="#">FK44PS-*/14.5/NPT</a>	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	
		Female	M16	Front Mount	<a href="#">FK44PS-*/M16</a>		
		Female	M16	Rear Mount	<a href="#">FKFD44PS-*/M16</a>		
		Male	1/2-14 NPT	Front Mount	<a href="#">FS44PS-*/14.5/NPT</a>		
		Male	M16	Front Mount	<a href="#">FS44PS-*/M16</a>		
		Male	M16	Rear Mount	<a href="#">FSFD44PS-*/M16</a>		

\*Length in meters. Standard lead length is 0.5 meters. Consult factory for other lengths.

For 316 stainless steel receptacle housings & locknuts add a V following gender designation. (ex: FKV46PL-\*/14.5/NPT)

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Powerfast | M12 Power Field Wireable Connectors

16 AWG Screw Terminal



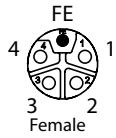
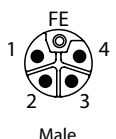
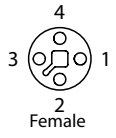
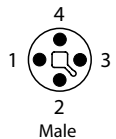
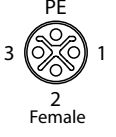
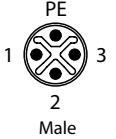
Connector Coding	Product Details	Gender	Orientation	Part Number	Pinout Color	Contact Assignment
L-Code	5 x 16 AWG 16 amps 63 V <sub>DC</sub>	Female	Straight	<a href="#">RK56PL-S-0</a>	1. BN 2. WH 3. BU 4. BK 5. GY	
		Female	Right angle	<a href="#">WK56PL-S-0</a>		
		Male	Straight	<a href="#">RS56PL-S-0</a>		
		Male	Right angle	<a href="#">WS56PL-S-0</a>		
T-Code	4 x 16 AWG 12 amps 63 V <sub>DC</sub>	Female	Straight	<a href="#">RK46PT-S-0</a>	1. BN 2. WH 3. BU 4. BK	
		Female	Right angle	<a href="#">WK46PT-S-0</a>		
		Male	Straight	<a href="#">RS46PT-S-0</a>		
		Male	Right angle	<a href="#">WS46PT-S-0</a>		
S-Code	4 x 16 AWG 12 amps 600 V <sub>AC</sub>	Female	Straight	<a href="#">RK46PS-S-0</a>	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	
		Female	Right angle	<a href="#">WK46PS-S-0</a>		
		Male	Straight	<a href="#">RS46PS-S-0</a>		
		Male	Right angle	<a href="#">WS46PS-S-0</a>		

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Powerfast | M12 Power Tees

M12 Power Tees



Connector Coding	Product Details	Type	Configuration	Part Number	Contact Assignment
L-Code	5 x 16 AWG 16 amps 63 V <sub>DC</sub>	Tee	Female trunk, male trunk, female drop	<a href="#">RSP/2RKP56PL</a>	
		Small-h splitter	Female trunk, male trunk, female drop	<a href="#">SH-RKP/RSP/RKP56PL</a>	
		Big-H splitter	Female trunk, male trunk, female drops	<a href="#">BH-RKP/RSP/2RKP56PL</a>	
T-Code	4 x 16 AWG 12 amps 63 V <sub>DC</sub>	Tee	Female trunk, male trunk, female drop	<a href="#">RSP/2RKP46PT</a>	
		Small-h splitter	Female trunk, male trunk, female drop	<a href="#">SH-RKP/RSP/RKP46PT</a>	
		Big-H splitter	Female trunk, male trunk, female drops	<a href="#">BH-RKP/RSP/2RKP46PT</a>	
S-Code	4 x 16 AWG 12 amps 600 V <sub>AC</sub>	Tee	Female trunk, male trunk, female drop	<a href="#">RSP/2RKP46PS</a>	
		Small-h splitter	Female trunk, male trunk, female drop	<a href="#">SH-RKP/RSP/RKP46PS</a>	
		Big-H splitter	Female trunk, male trunk, female drops	<a href="#">BH-RKP/RSP/2RKP46PS</a>	

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## Accessories

### Miscellaneous

Part Number	Description
<a href="#">LOCKNUT-M16-BRASS-(10/BAG)</a>	10 pack of brass locknuts for receptacles with M16 mounting thread.
<a href="#">LOCKNUT-M16-316SS-(10/BAG)</a>	10 pack of 316SS locknuts for receptacles with M16 mounting thread.
<a href="#">LOCKNUT-1/2NPT-BRASS-(10/BAG)</a>	10 pack of brass locknuts for receptacles with 1/2NPT mounting thread.
<a href="#">LOCKNUT-1/2NPT-316SS-(10/BAG)</a>	10 pack of 316SS locknuts for receptacles with 1/2NPT mounting thread.
<a href="#">M12-GASKET-M20,1/2NPT-(10/BAG)</a>	10 pack of NBR gasket for receptacles with M20 or 1/2NPT mounting threads.
<a href="#">M12-GASKET-PG9,M16,1/4NPT-(10/BAG)</a>	10 pack of NBR gasket for receptacles with PG9, M16, or 1/4NPT mounting threads.

### Torque Wrenches



Part Number	Mounting Thread
<a href="#">TORQUE-WRENCH-SET-M12-LEGACY</a>	Adjustable torque driver to connect to a Ø15mm knurl. Compatible with the redesigned and legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, (1) 1/4"square to 4mm hex adaptor bit, and (1) Ø15mm spring loaded clamp bit.
<a href="#">TORQUE-WRENCH-SET-M12&amp;M8-LEGACY</a>	Adjustable torque driver to connect to a Ø10mm and Ø15mm knurl. Compatible with the redesigned M12 cordsets and legacy M8 and M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, (1) 1/4"square to 4mm hex adaptor bit, (1) Ø10mm spring loaded clamp bit, and (1) Ø15mm spring loaded clamp bit.
<a href="#">TORQUE-WRENCH-SET-M12/SW13</a>	Adjustable torque driver to connect to the 13mm hex. Compatible with redesigned M12 cordsets, M12 Power, and M12 X-code. NOT Compatible with legacy M12 cordsets. Includes (1) adjustable torque driver, (1) adjustment tool, and (1) 13mm forked bit.
<a href="#">WRENCH-M12AL/SIZE 13MM</a>	13mm forked bit to connect to a 13mm hex. Intended to supplement an torque driver with a 4mm hex input. Compatible with redesigned M12 cordsets, M12 Power, and M12 X-code. NOT Compatible with legacy M12 cordsets.Includes (1) 13mm forked bit.

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# TURCK

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