

Your Global Automation Partner

TURCK

M12 Power T-Code and S-Code

M12 Power Cordsets

General Properties	
Design specification	Acc. To IEC 61076-2-111
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA 66/6, Black
Connector body	Plastic, TPU, Black
Coupling nut	Brass, CuZn, Nickel-plated
Mechanical life	>100
Protection class	When coupled -IP67, IP68 NEMA: 1, 3, 4, 6P
Mating torque	0.8 Nm
Approvals	RoHS

Part Number Key	
<div> <div> <div>R</div> <div>K</div> <div>P</div> <div></div> <div>46</div> <div>P</div> <div>T</div> <div>-</div> <div>*</div> <div>-</div> </div> <div>/S..</div> </div> <div> <p>Connector Geometry</p> <p>R = straight W = right angle</p> <p>Gender</p> <p>K = female S = male</p> <p>Plug Body Style</p> <p>P = extra large M12 Power plug body</p> <p>Coupling Nut Material</p> <p>(blank) = nickel plated brass V = stainless steel</p> <p>Number of Wires/AWG</p> <p>46 = 4x16 AWG</p> </div> <div> <p>Varieties</p> <p>/S = consult factory, special /CS.. = consult factory, special</p> <p>Insertion Point of Extension Cable Second Prefix*</p> <p>* Female connector listed first, male connector second Example: RKP46PS-2-RSP46PS</p> <p>Length in Meters</p> </div> <div> <p>Connector Coding</p> <p>T = T-Coded S = S-Coded</p> <p>M12 Powerfast Designation</p> </div>	

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

M12 Power Cordsets

Power Tray I Exposed Run - 16 AWG black PVC cable

Cable Properties	
Cable Approvals	UL: TC-ER, 600V, ITC-ER 150V, PLTC-ER, Direct Burial 300V, WTTTC 1000V CSA: CIC/TC 600V, FT1, FT4
Compliances	RoHS, CE, IEC 60332-3-22
Cable Temperature Rating	-40 °C to +105 °C
Cable Features	Sunlight resistant Oil resistant



Connector Coding	Product Details	Gender	Orientation	Part Number	Wiring Reference	Contact Assignment
T-Code	4 x 16 AWG Cable #RF52537 12 amps 63 V _{DC}	Female	Straight	RKP46PT-*	1. BN 2. WH 3. BU 4. BK	 Female
		Female	Right Angled	WKP46PT-*		
		Male	Straight	RSP46PT-*		 Male
		Male	Right Angled	WSP46PT-*		
		Female/Male	Straight/Straight	RKP46PT-*.RSP46PT		 Female
		Female/Male	Straight/Right Angled	RKP46PT-*.WSP46PT		
		Female/Male	Right Angled/Straight	WKP46PT-*.RSP46PT		
		Female/Male	Right Angled/Right Angled	WKP46PT-*.WSP46PT		
S-Code	4 x 16 AWG Cable #RF52538 12 amps 600 V _{AC}	Female	Straight	RKP46PS-*	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	 Female
		Female	Right Angled	WKP46PS-*		
		Male	Straight	RSP46PS-*		 Male
		Male	Right Angled	WSP46PS-*		
		Female/Male	Straight/Straight	RKP46PS-*.RSP46PS		 Female
		Female/Male	Straight/Right Angled	RKP46PS-*.WSP46PS		
		Female/Male	Right Angled/Straight	WKP46PS-*.RSP46PS		
		Female/Male	Right Angled/Right Angled	WKP46PS-*.WSP46PS		

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

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M12 Power Receptacles

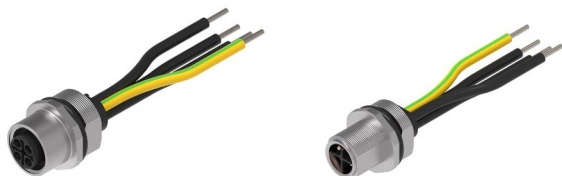
General Properties	
Design specification	Acc. To IEC 61076-2-111
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA, Black
Housing material/finish	Zinc, Zn, Nickel-plated
Panel seal	O-ring, NBR
Mechanical life	>100
Protection class	When coupled - IP68 NEMA: 1, 3, 4, 6P
Mating torque	0.8 Nm
Temperature range (static)	-40° C...+85° C

Part Number Key										
	F	K		46	P	T	-	*	/M16	/S..
M12 Powerfast Receptacle										Varities
										/S = consult factory, special
										/CS.. = consult factory, special
Gender										Thread Type
K = female										/M16 = M16 x 1.5 threads
S = male										/M20 = M20 x 1.5 threads
Housing Style										Connector Type/Length in Meters
(blank) = front mount										
FD = rear mount										P = PCB pins
Number of Wires/AWG										Connector Coding
46 = 4x16 AWG										T = T-coded
										S = S-coded
M12 Powerfast Designation										

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M12 Power Receptacles

16 AWG PVC Conductors



Connector Coding	Product Details	Gender	Mounting Orientation	Mounting Thread	Part Number	Pinout Color	Contact Assignment
T-Code	4 x 16 AWG 12 amps 63 V _{DC}	Female	Front Mount	M16	FK46PT-*/M16	1. BN 2. WH 3. BU 4. BK	4 3 1
		Female	Front Mount	M20	FK46PT-*/M20		2 Female
		Female	Rear Mount	M16	FKFD46PT-*/M16		4 1 3
		Male	Front Mount	M16	FS46PT-*/M16		2 Male
		Male	Front Mount	M20	FS46PT-*/M20		
		Male	Rear Mount	M16	FSFD46PT-*/M16		
S-Code	4 x 16 AWG 12 amps 600 V _{AC}	Female	Front Mount	M16	FK46PS-*/M16	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	PE 3 1
		Female	Front Mount	M20	FK46PS-*/M20		2 Female
		Female	Rear Mount	M16	FKFD46PS-*/M16		PE 1 3
		Male	Front Mount	M16	FS46PS-*/M16		2 Male
		Male	Front Mount	M20	FS46PS-*/M20		
		Male	Rear Mount	M16	FSFD46PS-*/M16		

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

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M12 Power Field Wireable Connectors

General Properties	
Design specification	Acc. To IEC 61076-2-111
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA, Black
Coupling nut	Zinc, Zn, Nickel-plated
Housing Material	Plastic, PA, Black
Mechanical life	>100
Protection class	When coupled - IP67
Mating torque	0.8 Nm
Temperature range (static)	-40° C...+85° C

Part Number Key

R	S		46	P	T	-	S	-	0
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Connector Geometry

R = straight
W = right angle

Gender

K = female
S = male

Body Style

(blank) = plastic

Number of Wires/AWG

46 = 4x16 AWG

Cable Option

0 = accepts 8-10mm cable diameter

Termination Style

S = screw terminals

Connector Coding

T = T-coded
S = S-coded

M12 Powerfast Designation

M12 Power Field Wireable Connectors
16 AWG Screw Terminal



Connector Coding	Product Details	Gender	Orientation	Part Number	Pinout Color	Contact Assignment
T-Code	4 x 16 AWG 12 amps 63 V _{DC}	Female	Straight	RK46PT-S-0	1. BN 2. WH 3. BU 4. BK	
		Female	Right angle	WK46PT-S-0		2 Female
		Male	Straight	RS46PT-S-0		
		Male	Right angle	WS46PT-S-0		2 Male
S-Code	4 x 16 AWG 12 amps 600 V _{AC}	Female	Straight	RK46PS-S-0	1. BK 1 2. BK 2 3. BK 3 PE. GN/YE	
		Female	Right angle	WK46PS-S-0		2 Female
		Male	Straight	RS46PS-S-0		
		Male	Right angle	WS46PS-S-0		2 Male

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M12 Power Tees

General Properties	
Design specification	Acc. To IEC 61076-2-111
Contacts	Brass, CuZn, Gold-plated
Contact carriers	Plastic, PA, Black
Coupling nut	Brass, CuZn, Chrome-plated
Housing Material	Plastic, TPU, Black
Mechanical life	>100
Protection class	When coupled - IP65, IP67, IP68
Mating torque	0.8 Nm
Temperature range (static)	-30° C...+90° C

M12 Powerfast Tee Part Number Key

Part Number Key	
	R S P / 2RKP 46 P T
Configuration	Connector Coding
R = straight	T = T-Coded
	S = S-Coded
Trunk Identifier	M12 Powerfast Designation
K = female	
S = male	
Plug Body Style	Number of Pins/AWG
P = extra large M12 Power plug body	46 = 4x16 AWG
	Trunk and Drop Identifiers
	2RKP = female trunk and female drop

M12 Powerfast H/h Style Tee Part Number Key

Part Number Key	
	BH - R K P / RSP/2RKP 46 P T
H/h Style	Connector Coding
BH = big H	T = T-Coded
SH = small h	S = S-Coded
Configuration	M12 Powerfast Designation
R = straight	
Trunk Identifier	Number of Pins/AWG
K = female	46 = 4x16 AWG
S = male	
Plug Body Style	Trunk and Drop Identifiers
P = extra large M12 Power plug body	RSP/2RKP = male trunk and female drops
	RSP/RKP = male trunk and female drop

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M12 Power Tees



Connector Coding	Product Details	Type	Configuration	Part Number	Contact Assignment
T-Code	4 x 16 AWG 12 amps 63 V _{DC}	Tee	Female trunk, male trunk, female drop	RSP/2RKP46PT	
		Small-h splitter	Female trunk, male trunk, female drop	SH-RKP/RSP/RKP46PT	
		Big-H splitter	Female trunk, male trunk, female drops	BH-RKP/RSP/2RKP46PT	
S-Code	4 x 16 AWG 12 amps 600 V _{AC}	Tee	Female trunk, male trunk, female drop	RSP/2RKP46PS	
		Small-h splitter	Female trunk, male trunk, female drop	SH-RKP/RSP/RKP46PS	
		Big-H splitter	Female trunk, male trunk, female drops	BH-RKP/RSP/2RKP46PS	

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