

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

	R	K	P		46	P	T	-	*	-	/S..
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Connector Geometry
R = straight
W = right angle

Gender
K = female
S = male

Plug Body Style
P = extra large M12 Power plug body

Coupling Nut Material
(blank) = nickel plated brass
V = stainless steel

Number of Wires/AWG
46 = 4x16 AWG

Varieties
/S = consult factory, special
/CS.. = consult factory, special

Insertion Point of Extension Cable Second Prefix*
* Female connector listed first, male connector second
Example: RKP46PS-2-RSP46PS

Length in Meters

Connector Coding
T = T-Coded
S = S-Coded

M12 Powerfast Designation

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	Right Angled	WSP46PT-*		
		Female/Male	Straight/Straight	RKP46PT-*.RSP46PT		 Male
		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	Right Angled	WSP46PS-*		
		Female/Male	Straight/Straight	RKP46PS-*.RSP46PS		 Male
		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..
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M12 Powerfast Receptacle

Gender

K = female
S = male

Housing Style

(blank) = front mount
FD = rear mount

Number of Wires/AWG

46 = 4x16 AWG

M12 Powerfast Designation

Varieties

/S = consult factory, special
/S.. = consult factory, special

Thread Type

/M16 = M16 x 1.5 threads
/M20 = M20 x 1.5 threads

Connector Type/Length in Meters

P = PCB pins

Connector Coding

T = T-coded
S = S-coded

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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	
Connector Geometry			Number of Wires/AWG				Termination Style		Cable Option	
R = straight W = right angle			46 = 4x16 AWG				S = screw terminals		0 = accepts 8-10mm cable diameter	
Gender			Connector Coding				M12 Powerfast Designation			
K = female S = male			T = T-coded S = S-coded							
Body Style										
(blank) = plastic										

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

M12 Power Field Wireable Connectors

16 AWG Screw Terminal



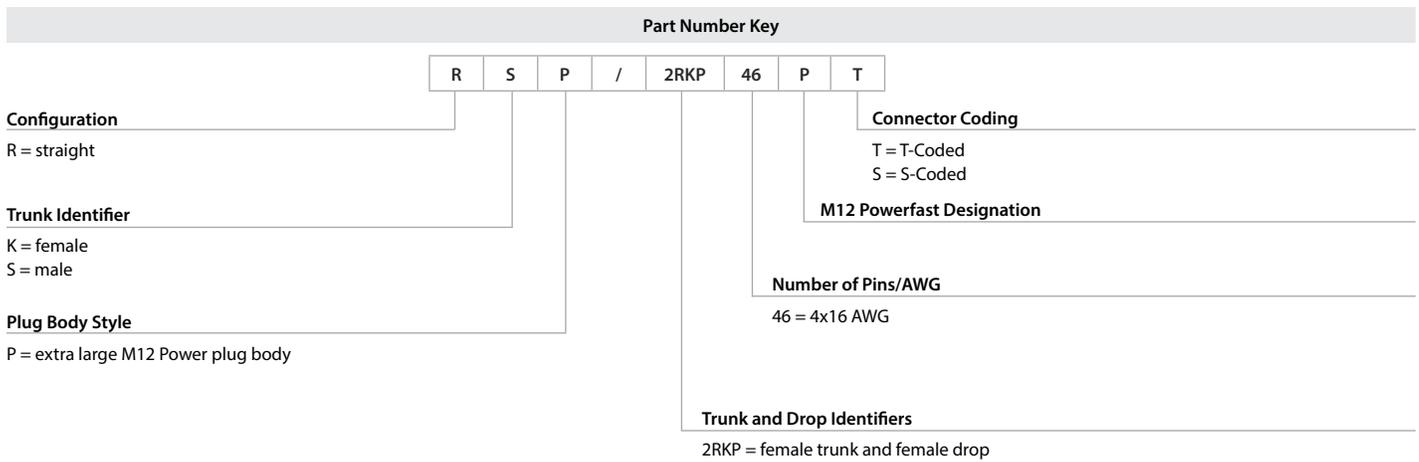
Connector Coding	Product Details	Gender	Orientation	Part Number	Pinout Color	Contact Assignment
T-Code	4 x 16 AWG 12 amps 63 V _{DC}	Female	Straight	RK46PT-S-0	1. BN 2. WH 3. BU 4. BK	
		Female	Right angle	WK46PT-S-0		Female
		Male	Straight	RS46PT-S-0		
		Male	Right angle	WS46PT-S-0		Male
S-Code	4 x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

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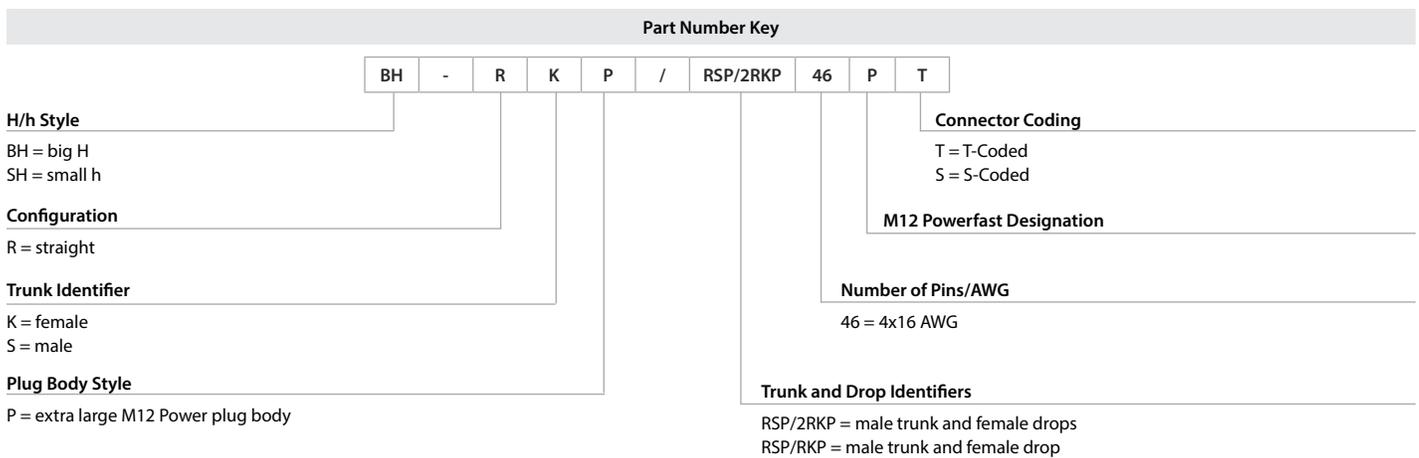
M12 Power Tees

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



M12 Powerfast H/h Style Tee Part Number Key



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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	 2 Female
		Small-h splitter	Female trunk, male trunk, female drop	SH-RKP/RSP/RKP46PT	 2 Male
		Big-H splitter	Female trunk, male trunk, female drops	BH-RKP/RSP/2RKP46PT	 2 Male
S-Code	4 x 16 AWG 12 amps 600 V _{AC}	Tee	Female trunk, male trunk, female drop	RSP/2RKP46PS	 2 Female
		Small-h splitter	Female trunk, male trunk, female drop	SH-RKP/RSP/RKP46PS	 2 Male
		Big-H splitter	Female trunk, male trunk, female drops	BH-RKP/RSP/2RKP46PS	 2 Male

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