

1404641

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Power connector, Power, 4-position, Plug straight M12, coding: S, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 mm, for AC current up to 12 A/630 V, Contact 4 leading

Your advantages

- Safe use in the field, thanks to a high degree of protection
- · Screw connection: proven connection technology for a large selection of different conductors
- High-performance: AC connectors for up to 12 A and 630 V AC
- Protection against incorrect connection using special S-coding

Commercial data

Item number	1404641	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales key	BF30	
Product key	AF2CAB	
GTIN	4046356707725	
Weight per piece (including packing)	25.7 g	
Weight per piece (excluding packing)	25 g	
Customs tariff number	85366990	
Country of origin	DE	



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Technical data

Notes

General	Strip 21 mm off the cable sheath, strip 6 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Conductor length with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.
Assembly note	NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Product properties

Product type	Circular connector (cable-side)		
Application	Energy supply		
Sensor type	Power		
Number of positions	4		
No. of cable outlets	1		
Shielded	no		
Coding	S		
Cable outlet	straight		
Pg screw connection	Pg11		
Insulation characteristics			
Overvoltage category	III		

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Dimensions

Degree of pollution

Seal material

Dimensional drawing	18 J
Width	20 mm
Height	20 mm
Length	65.5 mm
Wrench size, union nut	19 mm
External dimensions	
Outside diameter	8 mm 10 mm
Housing	
Diameter housing	20 mm
Material specifications	
Flammability rating according to UL 94	V0

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Material of grip body	PA
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Screw connection	
Connection cross section	0.75 mm ² 1.5 mm ² (with ferrule)	
	0.75 mm ² 2.5 mm ² (solid)	
Connection cross section AWG	18 16 (with ferrule)	
Stripping length of the individual wire	5 mm	
Tightening torque	0.4 Nm (M12 knurl)	
	1.5 Nm 2 Nm (Pressure screw with sleeve housing)	
	0.4 Nm (Screw plug insert with sleeve housing as far it will go)	
	0.2 Nm (Screw terminal blocks)	

Electrical properties

Rated surge voltage	6 kV	
Contact resistance	≤ 3 mΩ	
Insulation resistance	> 10 GΩ	
Nominal voltage U _N	630 V AC	
Nominal current I _N	12 A (when using 1.5 mm² conductors)	
	12 A (at 40 °C)	

Mechanical properties

Mechanical data

Connector

Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	S

Cable/line

Signal type/category	Power
Stripping length of the individual wire	5 mm

Environmental and real-life conditions

Ambient conditions



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Degree of protection	IP67		
Ambient temperature (operation) (male connector/female connector)	-40 °C 85 °C (Plug / socket)		
Standards and regulations			
Standards and regulations			
Standards and regulations Standard designation	M12 connector		

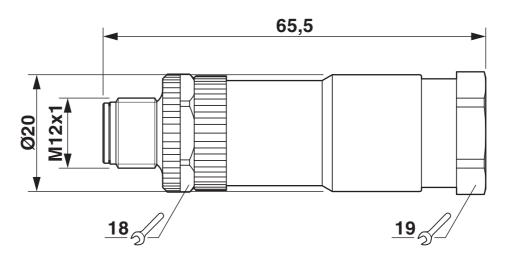


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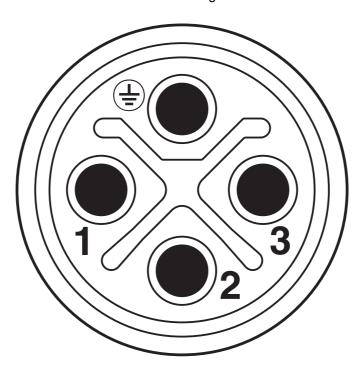
Drawings

Dimensional drawing



Plug, M12 x 1, straight

Schematic diagram



Connector pin assignment of M12 plug, 4-pos., S-coded, view of pin side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404641

.7. 2	CUL Recognized Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		600 V	12 A	- 16	-

7/	UL Recognized Approval ID: FILE E 221474			
	Nominal v	oltage U _N Nominal curre	nt I _N Cross section AWG	Cross section mm ²
keine				
	600 V	12 A	- 16	-



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Classifications

ECLASS

	ECLASS-13.0	27440116			
	ECLASS-15.0	27440116			
ETIM					
	ETIM 9.0	EC002635			
UNSPSC					
	UNSPSC 21.0	39121400			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	012005f3-071c-4300-90a4-8c608806b629
EF3.0 Climate Change	
CO2e kg	1.095 kg CO2e

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