

1080220

https://www.phoenixcontact.com/us/products/1080220

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Power connector, Power, 4-position, shielded, Plug straight M12, coding: S, Push-lock spring connection, knurl material: Brass, nickel-plated, external cable diameter 6 mm ... 11 mm, Contact 4 leading

Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- · Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- · Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- · Increased protection against electric shock: PE connection to all metal components
- Safely shielded: Reliable 360° shield connection even under extreme mechanical strain

Commercial data

Item number	1080220
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF33
Product key	AF2CFP
GTIN	4055626802879
Weight per piece (including packing)	74.5 g
Weight per piece (excluding packing)	74.5 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

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.
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Mounting

Assembly note	The wires can be connected both with ferrules and without
	forrulae

Product properties

Todad Proportion	
Product type	Circular connector (cable-side)
Application	Energy supply
Sensor type	Power
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	S
Cable outlet	straight
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	20 d
Length	70 mm
External dimensions	
Outside diameter	6 mm 11 mm
Housing	
Diameter housing	23 mm
Material specifications	

M

Flammability rating according to UL 94	V0
Material of grip body	Brass, nickel-plated
Contact surface material	Au
Material for screw connection	Brass, nickel-plated



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Connection data

Conductor connection

Connection method	Push-lock spring connection
Connection cross section	1.5 mm² 1.5 mm²
	0.75 mm ² 2.5 mm ² (with ferrule)
	1.5 mm² 1.5 mm² (solid)
Connection cross section AWG	16 16 (without ferrule)
	18 14 (with ferrule)
Stripping length of the individual wire	10 mm
Tightening torque	0.6 Nm (M12 knurl)
	5 Nm (Pressure nut with connector housing)

Connection assignment

Contact Color (signal designation) Contact (optional)	1 = BK1
	2 = BK2
	3 = BK3
	PE = GNYE

Electrical properties

Rated surge voltage	6 kV
Nominal voltage U _N	690 V AC
Nominal current I _N	12 A (when using 1.5 mm² conductors)
	12 A (at 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

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	10 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection IP65



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	Ambient temperature (operation) (male connector/female connector)	-40 °C 85 °C (Plug / socket)		
Δ	Ambient temperature (assembly)	-5 °C 50 °C (Plug / socket)		
Standards and regulations				
Stand	dards and regulations			
	dards and regulations Standard designation	M12 connector		

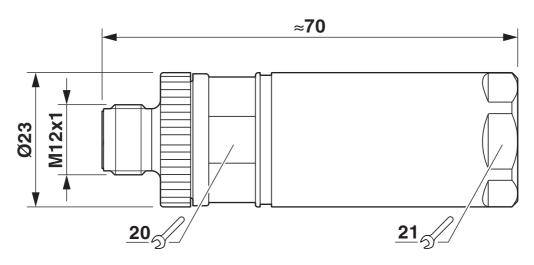


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Drawings

Dimensional drawing



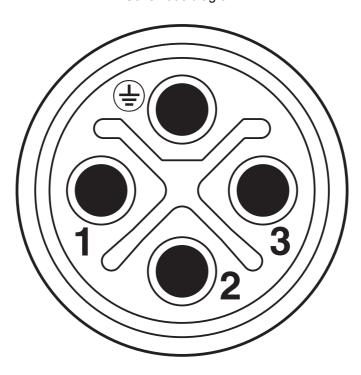
Plug, M12 x 1, straight, shielded



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Schematic diagram



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



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Classifications

ECLASS

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



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Environmental product compliance

EU RoHS

Yes, No exemptions				
China RoHS				
EFUP-E				
No hazardous substances above the limits				
EU REACH SVHC				
No substance above 0.1 wt%				

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com