

1438146

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Connector, Universal, 4-position, unshielded, Plug straight M12 Push-Pull, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm

### 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
- · Save time, thanks to installation with push-pull fast locking

#### Commercial data

Item number	1438146
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF2CEA
Product key	AF2CEA
GTIN	4063151815905
Weight per piece (including packing)	13.3 g
Weight per piece (excluding packing)	22.22 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
	ferrules

## Product properties

Circular connector (cable-side)
Universal
4
1
no
A
straight

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

#### **Dimensions**

#### External dimensions

Outside diameter	4 mm 8 mm
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### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	PA 6.6
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Plastic

### Connection data

#### Conductor connection

Connection method	Push-lock spring connection
Connection cross section	0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (without ferrule)
	0.08 mm <sup>2</sup> 0.5 mm <sup>2</sup> (with ferrule)
	0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (solid)



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Connection cross section AWG	26 18 (without ferrule)
	28 20 (with ferrule)
Stripping length of the individual wire	7 mm
Tightening torque	0.4 Nm (Connector with coupling sleeve)
	1.5 Nm (Pressure nut with coupling sleeve)
in assignment	
Contact   Color (signal designation)   Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK
ctrical properties	
Rated surge voltage	2.5 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A (2 A when using 0.14 mm² conductors)
chanical properties	TAX (27 mile) desired of the mile of inductions
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	≥ 100
lechanical data	
lechanical data Insertion/withdrawal cycles	
lechanical data Insertion/withdrawal cycles nnector	
lechanical data Insertion/withdrawal cycles Innector Innection 1	≥ 100
lechanical data Insertion/withdrawal cycles nnector onnection 1 Head design	≥ 100 Plug
Insertion/withdrawal cycles  Innector  onnection 1  Head design  Head cable outlet	≥ 100  Plug  straight
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-40 °C ... 85 °C (Plug / socket)

### Standards and regulations

Ambient temperature (operation)



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#### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	M12-Push-Pull
Standards/specifications	IEC 61076-2-010

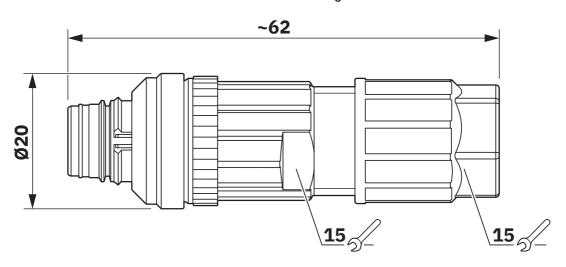


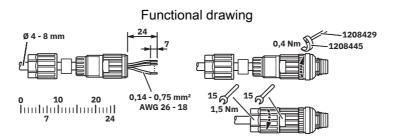
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# Drawings

### Dimensional drawing





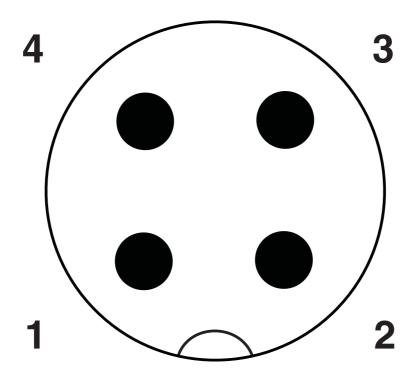
Functional drawing



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## Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side



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# Classifications

ETIM 9.0

#### **ECLASS**

	ECLASS-13.0	27440116
ΕT	ТІМ	

EC002635



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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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