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Connector, 4-position, shielded, Plug straight M12, A-coded, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

## Your advantages

- ☑ Reliable and quick connection of electric cables
- Flexible signal and data cabling
- Quick and easy installation, thanks to Push-in connection technology



# **Key Commercial Data**

Packing unit	1 pc
GTIN	4 055626 375939
GTIN	4055626375939
Weight per Piece (excluding packing)	37.000 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

#### **Dimensions**

Diameter housing	19 mm
Length	60 mm
External cable diameter	4 mm 8 mm
Stripping length of the sheath	29 mm
Stripping length of the individual wire	8 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)



## Technical data

## Ambient conditions

Degree of protection	IP65
	IP67

#### General

4 A
60 V DC
48 V AC
4
≥ 100 MΩ
A - standard
M12 connector IEC 61076-2-101
Shock, vibration EN 50155:2001
No
II
3
Push-in connection
0.14 mm² 0.75 mm² (without ferrule)
0.08 mm² 0.5 mm² (with ferrule)
0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (solid)
26 18 (without ferrule)
28 20 (with ferrule)
≥ 100 (Quantity: 500 with Phoenix Contact mating connector)
0.4 Nm (M12 knurl)
0.8 Nm (Connector with coupling sleeve)
3 Nm (Pressure nut with coupling sleeve)
The wires can be connected both with ferrules and without ferrules

### Material

Flammability rating according to UL 94	V0
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	Zinc die-cast, nickel-plated
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR
Additional material specifications	TPE-U (Clamping cage, weight: 1.1 g)
	PA 6 (Actuation lever)
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, R25, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
	PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Standards and Regulations



## Technical data

## Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	Shock, vibration
Standards/regulations	EN 50155:2001
Flammability rating according to UL 94	V0

## **Environmental Product Compliance**

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

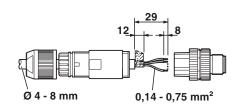
# **Drawings**

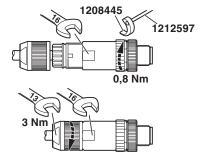
#### Schematic diagram



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

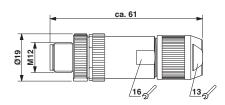
## Functional drawing





Slide the pressure nut and sleeve housing along the cable, strip the cable, shorten the shield, strip the single wires, connect the wires, in the case of a straight sleeve housing gently twist the wires together, stick the shielding foil around the shortened shield, in the case of a cable outside diameter < 6 mm stick an additional shielding foil around the wire pack, screw the sleeve housing to the plug insert, screw the pressure nut tight.

#### Dimensional drawing





## Classifications

## eCl@ss

eCl@ss 5.1	27143423
eCl@ss 6.0	27279200
eCl@ss 7.0	27440104
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

## **ETIM**

ETIM 5.0	EC002635
ETIM 6.0	EC002635

## Approvals

Approvals

Approvals

EAC / UL Listed / cUL Listed / cULus Listed

Ex Approvals

## Approval details

EAC RU C-DE.Al30.B.01102

UL Listed	UL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E221474
Nominal voltage UN			60 V	
Nominal current IN			4 A	
mm²/AWG/kcmil			26-18	

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		E221474
Nominal voltage UN			60 V	
Nominal current IN			4 A	
mm²/AWG/kcmil			26-18	



# Approvals

cULus Listed



## Accessories

#### Accessories

Cable by the meter

Cable reel - SAC-4P-100,0-PUR/SH-0,25 - 1535794



Cable ring, black halogen-free PUR, 4-pos., shielded,  $4 \times 0.25 \text{ mm}^2$ , conductor colors: brown/white/blue/black, cable length: 100 m

Cable reel - SAC-4P-100,0-PUR/SH-0,34 - 1501715



Cable ring, PUR halogen-free black, 4-pos., shielded, conductor colors: Brown/white/blue/black, cable length: 100 m

## Connector

Ferrule - AI 0,25-6 YE - 3203024



Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow

Ferrule - A 0,25-7 - 3202478



Ferrule, length: 7 mm, color: silver



#### Accessories

Ferrule - A 0,34-7 - 3009202



Ferrule, length: 7 mm, color: silver

Ferrule - A 0,5 - 6 - 3200218



Ferrule, length: 6 mm, color: silver

Ferrule - AI 0,5 - 6 WH - 3200687



Ferrule, sleeve length: 6 mm, length: 12 mm, color: white

### Crimping tool

Crimping pliers - CRIMPFOX 6H - 1212046



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm² ... 6 mm², unlockable pressure lock, lateral entry

### Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



Screwdriver tools



## Accessories

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

#### Shield connection

Shielding foil - ALU-SB - 1404531

Shielding foil, for fixing the braided shield of shielded cables. Length: 4 cm, width: 1.2 cm



#### Stripping tool

Stripping tool - WIREFOX 2,5 - 1212368



Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm² stranded/1.5 mm² solid

## Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors  $\,$ 



## Accessories

Torque screwdriver - TSD 08 SAC - 1212597



Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

Torque screwdriver - TSD-M 1,2NM - 1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

Torque screwdriver - TSD-M 3NM - 1212225



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1.2 - 3 Nm

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407



Stripping tool, for the multi-level stripping of shielded cables

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