

1421680

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Data connector, Ethernet CAT5 (1 Gbps), 8-position, halogen-free, shielded, Socket straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Your advantages

- · Safe use in the field, thanks to a high degree of protection
- · Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- Reliable signal transmission 360° shielding in environments with electromagnetic interference

Commercial data

Item number	1421680
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF31
Product key	BF2CDI
Catalog page	Page 343 (C-2-2019)
GTIN	4055626276823
Weight per piece (including packing)	45.1 g
Weight per piece (excluding packing)	45.1 g
Customs tariff number	85366990
Country of origin	DE



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Technical data

Notes

Product properties

Circular connector (cable-side)
Data
Ethernet
8
1
yes
A
straight

Data management status

Article revision	06
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Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	= 57 2 2 3 3 4 4 5 4 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6
Length	57 mm
Wrench size, union nut	15 mm
External dimensions	
Outside diameter	5 mm 9.7 mm
Housing	
Diameter housing	19 mm

Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au



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Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
Wire insulation material	PVC / PE / PP / rubber

Connection data

Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.14 mm² 0.34 mm² (flexible)
	0.14 mm ² 0.34 mm ² (solid)
Connection cross section AWG	26 22 (flexible)
	26 22 (solid)
Tightening torque	5 Nm (Pressure nut)

Pin assignment

Pin assignment	
Contact Color (signal designation) Contact (optional)	1 = WHBU (D3-)
	2 = WHBN (D4+)
	3 = BN (D4-)
	4 = OG (D1-)
	5 = WHGN (D2+)
	6 = WHOG (D1+)
	7 = BU (D3+)
	8 = GN (D2-)

Electrical properties

Rated surge voltage	0.8 kV
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	2 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles ≥ 100

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	A



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Cable/line

Cable/line				
	Signal type/category	Ethernet CAT5 (based on IEC 11801), 1 Gbps		
	Environmental and real-life conditions			
	Ambient conditions			
	Degree of protection	IP65		
		IP67		
	Ambient temperature (operation)	-40 °C 85 °C (Plug / socket)		

Standards and regulations

Ambient temperature (assembly)

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1	esti	nr
	COL	110

Standards/regulations	PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)
M12	
Standard designation	M12 connector
Standards/specifications	according to IEC 61076-2-101

-5 °C ... 50 °C

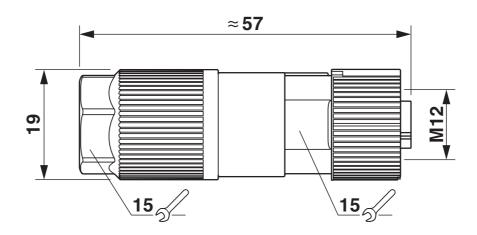


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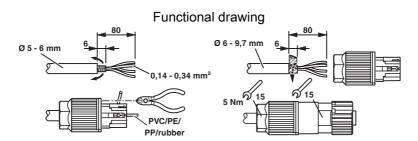
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Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

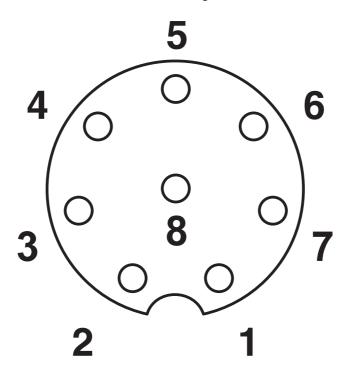




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Pin assignment M12 socket, 8-pos., A-coded, view female side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1421680



EAC

Approval ID: RU C-DE.BL08.B.00511



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-1	1.0	27440102
ECLASS-1	2.0	27440116
ECLASS-1	3.0	27440116
ETIM		
ETIM 9.0		EC002635
UNSPSC		

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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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