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	AF2CDI
Product key	AF2CDI
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

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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Product properties

Product type	Circular connector (cable-side)
Application	Data
Sensor type	Ethernet
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight
Insulation characteristics	
Overvoltage category	Ш
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	57 mm
Wrench size, union nut	15 mm
External dimensions	
Outside diameter	5 mm 9.7 mm
Housing	
Diameter housing	19 mm
aterial specifications	
Flammability rating according to UL 94	VO
Seal material	NBR
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

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Wire insulation material	PVC / PE / PP / rubber
nection data	
onductor connection	
Connection method	Insulation displacement connection
Connection cross section	0.14 mm ² 0.34 mm ² (flexible)
	0.14 mm² 0.34 mm² (solid)
Connection cross section AWG	26 22 (flexible)
	26 22 (solid)
Tightening torque	5 Nm (Pressure nut)
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-)
ectrical 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
chanical properties	
Nechanical data	
Insertion/withdrawal cycles	≥ 100
nnector	
Connection 1 Head design	Socket
Head design	
Head cable outlet Head thread type	straight M12
Coding	A
	0
ble/line	
Signal type/category	Ethernet CAT5 (based on IEC 11801), 1 Gbps

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Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C 85 °C (Plug / socket)
Ambient temperature (assembly)	-5 °C 50 °C
andards and regulations	-5 C 50 C
-	
Testing	

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

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Drawings





M12 x 1 socket, straight, shielded



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Schematic diagram

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

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Classifications

ECLASS

	ECLASS-13.0	27440116
E٦	ГІМ	
	ETIM 9.0	EC002635
U	NSPSC	
	UNSPSC 21.0	39121400
	0103F3C 21.0	39121400

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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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