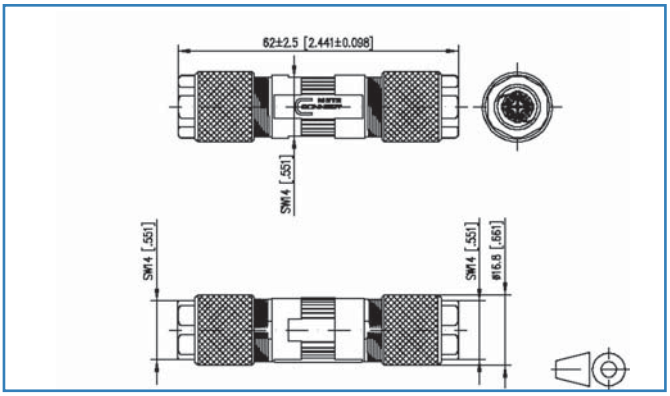
Data sheet
Cable connector class F_A

Illustrations

Dimensional drawing



See enlarged drawings at the end of document

Product specification

- cable connector for field assembly Class F_A for 8 wire cables
- to connect / extend / repair / relocate copper data cables up to Cat.7_A
- compliance to Class F_A up to 1000 MHz according to ISO/IEC 11801 Ed.2.2:2011-06 in connection with Cat.7_A copper cables
- GHMT certified to ISO/IEC 11801 Ed.2.2:2011-06 and IEC 61156-5 Ed.2.1:2012-12
- for 10 GBit as per IEEE 802.3an
- suitable for Power over Ethernet (PoE, PoE plus and UPoE)
- compact design: diameter 16.8 mm x length 64 mm
- IP67 protected housing in combination with appropriate cables
- refined zinc die-cast housing consisting of three parts only suitable for industrial applications
- easy and fast assembly without special tools
- shield connection and strain relief integrated in the housing
- easy connection of data cables AWG 24/1 to 22/1 (solid wire) and AWG 24/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- solid copper wire diameter 0.5 to 0.64 mm
- stranded copper wire diameter 0.61 to 0.76 mm
- conductor diameter up to 1.6 mm
- suitable for cables with an overall diameter of 5.0 to 9.7 mm
- fully shielded version according to DIN EN 50173-1 and DIN EN 50310

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Technical Data

General Data	
Design	Cable connector
Shielding	shielded
Transmission technology	Copper
Color	metallike
Dimensions	
Dimension (L x W x H)	62.00 x 16.80 x 16.80 mm
Dimension (L x W x H)	2.44 x 0.66 x 0.66 in.
Field assembly ability	yes

Transmission characteristics	
Class (ISO/IEC)	F_A
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
UPoE	yes
Transmission rate up to 10 GBit	IEEE 802.3an

Connections/interfaces	
Connector technology interface 1	IDC-connection
Connector technology interface 2	IDC-connection
Number of ports interface 1	1
Number of ports interface 2	1
Number of equipped ports interface 1	1
Number of ports interface 2 equipped	1
Number of positions/contacts interface 1	8
Number of positions/contacts interface 2	8
Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 24 - 22
Conductor cross section, solid wire	0.205 - 0.324 mm²
Conductor diameter, solid wire (bare copper)	0.511 - 0.643 mm
Conductor diameter, solid wire (bare copper)	0.020 - 0.025 in.

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Technical Data

Connections/interfaces	
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 24 - 22
Conductor cross section, stranded wire	0.227 - 0.355 mm²
Conductor diameter, stranded wire (bare copper)	0.610 - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.024 - 0.030 in.
Core diameter (min. - max.)	
Core diameter (conductor with insulation)	1.60 mm
Core diameter (conductor with insulation)	0.06 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5.00 - 9.70 mm
Cable sheath diameter	0.20 - 0.38 in.
Cable access/outlet	180°
Reconnectibility	yes

Electrical characteristics	
Current carrying capacity	0.5 A
Rated voltage	63 V
Through resistance	max. 5 mOhm
Insulation resistance	min. 100 MOhm
Dielectric strength conductor-conductor (primarily)	750 V DC

Materials and material properties	
Material - Housing	GD-Zn (zinc die-cast)
Material - Insulation displacement contacts	CuSn (tin bronze)
Material - Finish of insulation displacement contacts	Sn (tin)
Material - Shield	CuSn (tin bronze)
Material - Shield finish	Sn (tin)
Material - Stuffer cap	PA UL94-V0

Environmental conditions	
Temperature (min. - max.)	
Temperature - Storage °C	-25 - 85 °C
Temperature - Operating °C	-40 - 85 °C
Temperature - Operating °F	-40 - 185 °F
Particulate ingress	IP6X

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Environmental conditions	
Liquid ingress/immersion	IPX5
Overvoltage category	II
Pollution degree	1
Shock	490 m/s²

Certifications	
GHMT Component	yes
Gost Certification	yes

Approvals	
RoHS	compliant
UL listed (file no.)	DUXR.E178484

The product meets the following standards	
Generic cabling systems	
General requirements	ISO/IEC 11801 Ed.2.2:2011-06 | DIN EN 50173-1
Application of equipotential bonding and earthing	DIN EN 50310

Classifications	
ETIM 5.0	EC001121

Packing details	
Type of packaging	1 pc(s) / plastic bag
Packaging unit - Weight (gram)	168.00 g
Packaging unit - Weight (pound)	0.37 lb

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