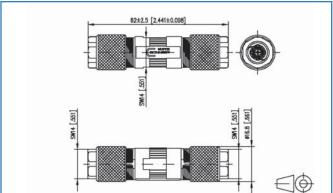
### **Data sheet**

### Cable connector class F<sub>A</sub>

#### Illustrations



#### Dimensional drawing



See enlarged drawings at the end of document

#### **Product specification**

- cable connector for field assembly Class F<sub>A</sub> for 8 wire cables
- to connect / extend / repair / relocate copper data cables up to Cat.7A
- compliance to Class F<sub>A</sub> up to 1000 MHz according to ISO/IEC 11801 Ed.2.2:2011-06 in connection with Cat.7<sub>A</sub> 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

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.

Termination data, stranded wire (min max.) Conductor cross section, stranded wire Conductor cross section, stranded wire Conductor diameter, stranded wire Conductor diameter, stranded wire (bare copper) Core diameter (min max.) Core diameter (conductor with insulation) Core diameter (conductor with insulation) Cable sheath diameter (min max.) Cable sheath diameter Cable sheath diameter  Cable sheath diameter  Dele s	Technical Data	
Termination data, stranded wire (min max.) Conductor cross section, stranded wire Conductor cross section, stranded wire Conductor diameter, stranded wire (bare copper) Conductor diameter, stranded wire (bare copper) Conductor diameter, stranded wire (bare copper) Core diameter (min max.) Core diameter (conductor with insulation) Core diameter (conductor with insulation) Core diameter (conductor with insulation) Cable sheath diameter (min max.) Cable sheath diameter Cable sheath diameter Cable sheath diameter Cable sheath diameter Cable access/outlet Reconnectibility yes  Electrical characteristics Current carrying capacity Rated voltage Sa V Through resistance Insulation resistance Dielectric strength conductor-conductor (primarily) Ty50 V DC  Materials and material properties Material - Insulation displacement contacts CuSn (tin bronze) Material - Shield CuSn (tin bronze) Material - Shield finish Sn (tin) Material - Stuffer cap PA UL94-V0  Environmental conditions Temperature - Operating °C - 40 - 85 °C - Temperature - Operating °F - 40 - 185 °F	Connections/interfaces	
Conductor cross section, stranded wire 0.227 - 0.355 mm² 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 - Insulation displacement contacts CuSn (tin bronze) Material - Insulation displacement contacts Sn (tin) Material - Shield CuSn (tin bronze) Material - Shield finish Sn (tin) Material - Stuffer cap PA UL94-V0  Environmental conditions  Temperature - Operating °C -25 - 85 °C Temperature - Operating °F -40 - 185 °F		
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 0.20 - 0.38 in.  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 - Insulation displacement contacts CuSn (tin bronze) Material - Insulation displacement contacts Sn (tin) Material - Shield finish Sn (tin) Material - Strief cap PA UL94-V0  Environmental conditions  Temperature (min max.)  Temperature - Operating °C -25 - 85 °C  Temperature - Operating °C -40 - 85 °C  Temperature - Operating °F -40 - 185 °F	,	AWG 24 - 22
Conductor diameter, stranded wire (bare copper) Conductor diameter, stranded wire (bare copper) Core diameter (min max.) Core diameter (conductor with insulation) Core diameter (conductor with insulation) Cable sheath diameter (min max.) Cable sheath diameter Cable sheath diamete	· · · · · · · · · · · · · · · · · · ·	0.227 - 0.355 mm <sup>2</sup>
Conductor diameter, stranded wire (bare copper)  Core diameter (min max.)  Core diameter (conductor with insulation)  Core diameter (conductor with insulation)  Cable sheath diameter (min max.)  Cable sheath diameter (min max.)  Cable sheath diameter  Sheath diameter  Cable sheath diameter  Cable sheath diameter  Cable sheath diameter  Sheath diameter  Cable sheath diameter  Cable sheath diameter  Sheath diameter  Cable sheath diameter  Cable sheath diameter  Cable sheath diameter  Should sheath diameter  Cable sheath diameter  Cable sheath diameter  Should sheath diameter  Should sheath diameter  Cable sheath diameter  Should sheath diameter  Should sheath diameter  Cable sheath diameter  Should sheath diameter	·	0.610 - 0.762 mm
Core diameter (min max.)  Core diameter (conductor with insulation)  Core diameter (conductor with insulation)  Core diameter (conductor with insulation)  Cable sheath diameter (min max.)  Cable sheath diameter  Cable sheath diameter  Cable sheath diameter  Cable sheath diameter  Cable access/outlet  Reconnectibility  Electrical characteristics  Current carrying capacity  O.5 A  Rated voltage  63 V  Through resistance  Insulation resistance  Dielectric strength conductor-conductor (primarily)  Material - Housing  Material - Housing  Material - Insulation displacement contacts  CuSn (tin bronze)  Material - Shield  Material - Shield  Material - Shield finish  Son (tin)  Material - Stuffer cap  PA UL94-V0  Environmental conditions  Temperature (min max.)  Temperature - Operating °C  -40 - 85 °C  Temperature - Operating °F  -40 - 185 °F		0.024 - 0.030 in.
Core diameter (conductor with insulation) Core diameter (conductor with insulation) Cable sheath diameter (min max.) Cable sheath diameter Cable sheath		
Core diameter (conductor with insulation) Cable sheath diameter (min max.) Cable sheath diameter Cable sheath diameter Cable sheath diameter Cable sheath diameter Cable scess/outlet Reconnectibility yes  Electrical characteristics Current carrying capacity O.5 A Rated voltage Size of the work of the wo	,	1.60 mm
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 - Shield CuSn (tin bronze)  Material - Shield GuSn (tin bronze)  Material - Shield GuSn (tin) Material - Stuffer cap PA UL94-V0  Environmental conditions  Temperature - Storage °C -25 - 85 °C  Temperature - Operating °C -40 - 85 °C  Temperature - Operating °C -40 - 185 °F		0.06 in.
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 - 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 °F -40 - 185 °F	,	
Cable access/outlet Reconnectibility yes  Electrical characteristics Current carrying capacity		5.00 - 9.70 mm
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) Material - Shield CuSn (tin bronze) Material - Shield Sinish Sn (tin) Material - Shield finish Sn (tin) Material - Stuffer cap PA UL94-V0  Environmental conditions Temperature (min max.) Temperature - Storage °C -25 - 85 °C Temperature - Operating °F -40 - 185 °F	Cable sheath diameter	0.20 - 0.38 in.
Electrical characteristics  Current carrying capacity  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 - 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	Cable access/outlet	180°
Electrical characteristics  Current carrying capacity  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 - 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	Reconnectibility	yes
Current carrying capacity  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 - Shield  finish of insulation displacement contacts  Sn (tin)  Material - Shield finish  Sn (tin)  Material - Stuffer cap  PA UL94-V0   Environmental conditions  Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  -40 - 85 °C  Temperature - Operating °F  -40 - 185 °F	,	•
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	Electrical characteristics	
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	Current carrying capacity	0.5 A
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	Rated voltage	63 V
Dielectric strength conductor-conductor (primarily)  Materials and material properties  Material - Housing  GD-Zn (zinc die-cast)  Material - Insulation displacement contacts  CuSn (tin bronze)  Material - Shield  CuSn (tin bronze)  Material - Shield finish  Sn (tin)  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	Through resistance	max. 5 mOhm
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	Insulation resistance	min. 100 MOhm
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	Dielectric strength conductor-conductor (primarily)	750 V DC
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		
Material - Insulation displacement contacts  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  Temperature - Operating °C  Temperature - Operating °F  -40 - 185 °F	Materials and material properties	
Material - Finish of insulation displacement contacts  Material - Shield  CuSn (tin bronze)  Material - Shield finish  Sn (tin)  Material - Stuffer cap  PA UL94-V0  Environmental conditions  Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  -40 - 185 °F		GD-Zn (zinc die-cast)
Material - Shield  Material - Shield finish  Sn (tin)  Material - Stuffer cap  PA UL94-V0  Environmental conditions  Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  CuSn (tin bronze)  PA UL94-V0	Material - Insulation displacement contacts	CuSn (tin bronze)
Material - Shield finish  Material - Stuffer cap  PA UL94-V0  Environmental conditions  Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  -40 - 185 °F	Material - Finish of insulation displacement contacts	Sn (tin)
Material - Stuffer cap  PA UL94-V0  Environmental conditions  Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  PA UL94-V0  PA UL94-V0  -25 - 85 °C  -40 - 85 °C  -40 - 85 °C	Material - Shield	CuSn (tin bronze)
Environmental conditions  Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  -40 - 185 °F	Material - Shield finish	Sn (tin)
Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  -40 - 185 °F	Material - Stuffer cap	PA UL94-V0
Temperature (min max.)  Temperature - Storage °C  Temperature - Operating °C  Temperature - Operating °F  -40 - 185 °F	Environmental conditions	
Temperature - Storage °C -25 - 85 °C  Temperature - Operating °C -40 - 85 °C  Temperature - Operating °F -40 - 185 °F		
Temperature - Operating °C -40 - 85 °C  Temperature - Operating °F -40 - 185 °F	. , , , , , , , , , , , , , , , , , , ,	-25 - 85 °C
Temperature - Operating °F -40 - 185 °F		
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	Particulate ingress	IP6X

Technical Data	
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

### Illustrations

Dimensional drawing

