

## Data sheet

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

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P/N

130863-02-E

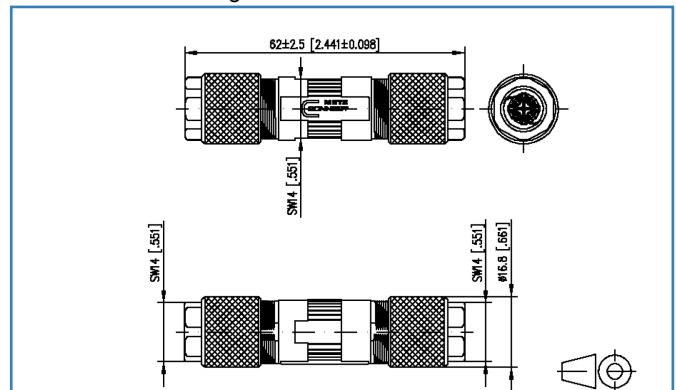
EAN 4250184159247

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## 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.7<sub>A</sub>
- 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 \*1
- GHMT certified to ISO/IEC 11801 Ed.2.2:2011-06 and IEC 61156-5 Ed.2.1:2012-12
- suitable for 10 GBit Ethernet (IEEE 802.3an), Remote Powering (PoE, PoE plus and UPoE) and HDBaseT
- compact design: diameter 16.8 mm x length 64 mm
- IP67 protected housing in combination with IP67 appropriate cables \*2
- refined zinc die-cast housing
- easy and fast assembly without special tools
- shield connection and strain relief integrated
- easy connection of data cables AWG 26/1 to 22/1 (solid wire) and AWG 26/7 to 22/7 (stranded wire) to insulation displacement connectors (IDC)
- solid copper wire diameter 0.4 to 0.64 mm
- stranded copper wire diameter 0.48 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 \*2
- fully shielded version according to DIN EN 50173-1



### 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)	2.441 x 0.661 x 0.661 in.
Weight	27.00 g
Weight	0.06 lb
Field assembly ability	yes

#### Transmission characteristics

Class (ISO/IEC)	F <sub>A</sub> *1 (with cable lengths of 20 m and above on the left and right side of the cable connector)
Remote Powering	yes
PoE	IEEE 802.3af
PoE plus	IEEE 802.3at
UPoE	yes
HDBaseT	yes
Transmission rate up to 10 GBit	IEEE 802.3an

#### Connections/interfaces

Connector technology interface 1	IDC-connection
Connector technology interface 2	IDC-connection
Termination data, solid wire (min. - max.)	
Conductor cross section, solid wire	AWG 26/1 - 22/1
Conductor cross section, solid wire	0.128 - 0.324 mm <sup>2</sup>
Conductor diameter, solid wire (bare copper)	0.409 - 0.643 mm
Conductor diameter, solid wire (bare copper)	0.016 - 0.025 in.
Termination data, stranded wire (min. - max.)	
Conductor cross section, stranded wire	AWG 26/7 - 22/7
Conductor cross section, stranded wire	0.141 - 0.355 mm <sup>2</sup>
Conductor diameter, stranded wire (bare copper)	0.483 - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 - 0.030 in.

### Technical Data

#### Connections/interfaces

##### Core diameter (min. - max.)

Core diameter (conductor with insulation)	1.60 mm
Core diameter (conductor with insulation)	0.063 in.

##### Cable sheath diameter (min. - max.)

Cable sheath diameter	5.00 - 9.70 *2 mm
Cable sheath diameter	0.197 - 0.354 in.

Cable access/outlet	180°
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Reconnectibility	yes
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#### Electrical characteristics

Current carrying capacity	0.5 A
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Rated voltage	60 V
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Through resistance	max. 5 mOhm
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Insulation resistance	min. 100 MOhm
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Dielectric strength conductor-conductor (primarily)	750 V DC
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#### Materials and material properties

Material - Housing	GD-Zn (zinc die-cast)
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Material - Housing finish	Ni (nickel)
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Material - Insulation displacement contacts	CuSn (tin bronze)
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Material - Finish of insulation displacement contacts	Sn (tin)
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Material - Shield	CuSn (tin bronze)
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Material - Shield finish	Sn (tin)
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Material - Stuffer cap	PA UL94-V0
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#### Environmental conditions

##### Temperature (min. - max.)

Temperature - Storage °C	-40 - 85 °C
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Temperature - Storage °F	-40 - 185 °F
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Temperature - Operating °C	-25 - 85 °C
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Temperature - Operating °F	-13 - 185 °F
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Particulate ingress	IP6X
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Liquid ingress/immersion	IPX7 *2 (when combined with cables suitable for IP67 and a cable jacket diameter of 6.2 mm to 9.7 mm)
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Overvoltage category	II
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Pollution degree	1
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### Technical Data

#### Approvals

CE	compliant
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
Railway applications	
Electronic equipment used on rolling stock	DIN EN 50155
Fire protection on railway vehicles	DIN EN 45545-2

#### Classifications

ETIM 5.0	EC001121
ETIM 6.0	EC001121

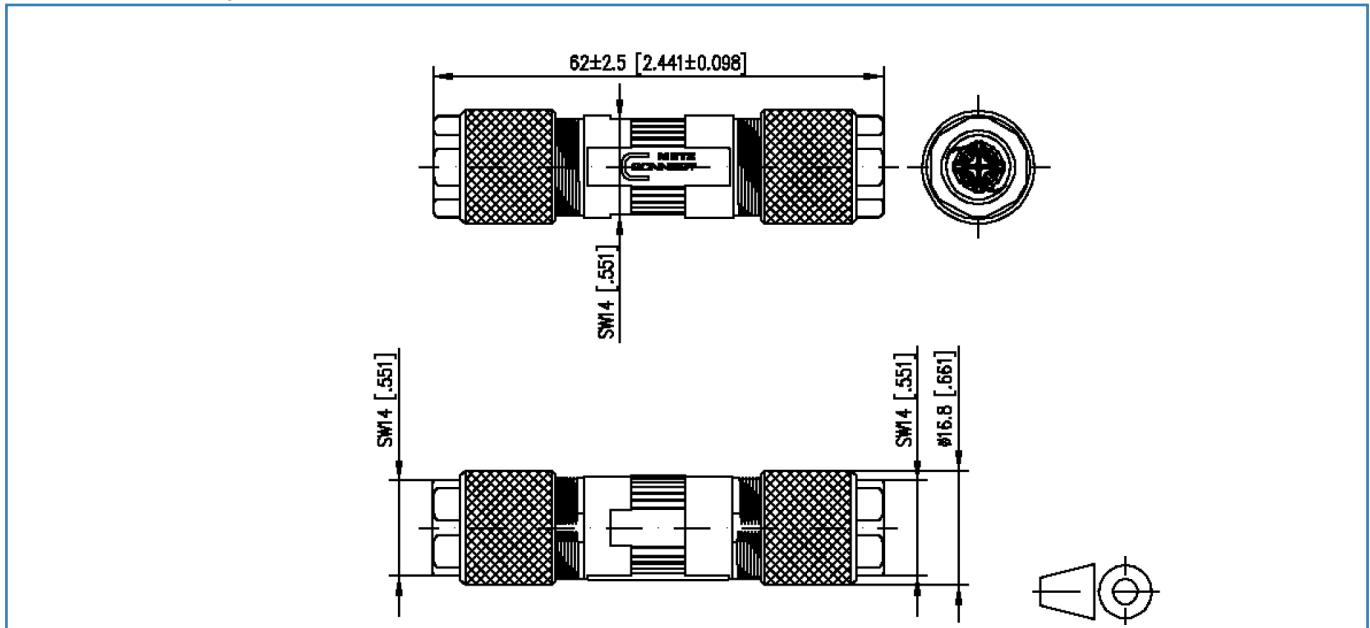
#### Packing details

Type of packaging	1 pc(s) / blister packaging
Packaging dimension (W x H x D)	1.00 x 0.78 x 0.20 mm
Packaging dimension (W x H x D)	0.039 x 0.031 x 0.008 in.



## Illustrations

### Dimensional drawing



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