

Data sheet

Cable connector class F_A

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P/N

130863-02-E

EAN 4250184159247

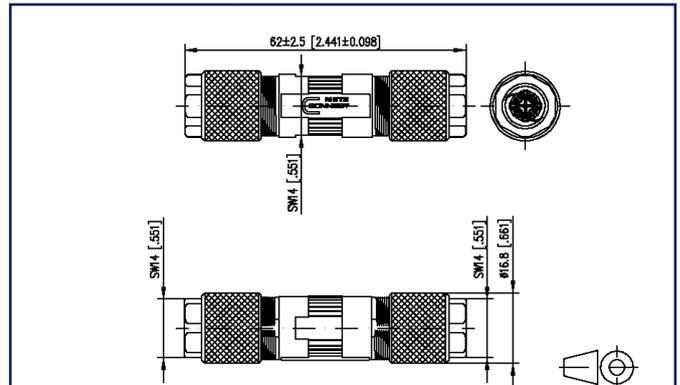
2025/09/01

Version: AL

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 in connection with Cat.7_A copper cables *1
- 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)
- 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
- suitable for applications in the railway industry according to data sheet
- *1 F_A (with cable lengths of 20 m and above on the left and right side of the cable connector)
- *2 IPX7 (when combined with cables suitable for IP67 and a cable jacket diameter of 6.2 mm to 9.7 mm)



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Technical Data

General Data

Mechanical measurement according to MICE	M1
Ingress measurement according to MICE	I1
Climatic measurement according to MICE	C1
Electromagnetic measurement according to MICE	E2
Design	cable connector
Shielding	shielded
Transmission technology	Copper
Color	metallike
Dimensions	
Dimension (L x W x H)	62 mm x 16.8 mm x 16.8 mm
Dimension (L x W x H)	2.441 in. x 0.661 in. x 0.661 in.
Weight	27 g
Weight	0.0595 lb
Field assembly ability	yes

Transmission characteristics

Class (ISO/IEC)	FA *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
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 - AWG 22/1
Conductor cross section, solid wire	0.128 mm ² - 0.324 mm ²
Conductor diameter, solid wire (bare copper)	0.409 mm - 0.643 mm
Conductor diameter, solid wire (bare copper)	0.016 in. - 0.025 in.



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Connections/interfaces

Termination data, stranded wire (min. - max.)

Conductor cross section, stranded wire	AWG 26/7 - AWG 22/7
Conductor cross section, stranded wire	0.141 mm ² - 0.355 mm ²
Conductor diameter, stranded wire (bare copper)	0.483 mm - 0.762 mm
Conductor diameter, stranded wire (bare copper)	0.019 in. - 0.03 in.
Aderdurchmesser (min.-max.)	
Core diameter (conductor with insulation)	1 mm - 1.6 mm
Core diameter (conductor with insulation)	0.039 in. - 0.063 in.
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5 mm - 9.70 *2
Cable sheath diameter	0.197 in. - 0.354
Cable access/outlet	180°
Reconnectibility	yes

Electrical characteristics

Current carrying capacity	0,5 A at 60 °C
Rated voltage	max. 60 V DC
Rated voltage UL	max. 56.5 V DC
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
Material - Housing finish	Ni (nickel)
Material - Insulation displacement contacts	CuSn
Material - Finish of insulation displacement contacts	Sn
Material - Shield	CuSn
Material - Shield finish	Sn
Material - Stuffer cap	PA UL94-V0
Halogen free	yes
RoHS	compliant

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Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 °C - 85 °C
Temperature - Storage °F	-40 °F - 185 °F
Temperature - Operating °C	-25 °C - 85 °C
Temperature - Operating °F	-13 °F - 185 °F
Particulate ingress	IP6X
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)
Overvoltage category	II
Degree of pollution	1

Approvals

UL listed (file no.)



DUXR.E178484

Standards/Regulations

Generic cabling systems	
General requirements	DIN EN 50173-1
Railway applications	
Electronic equipment used on rolling stock	following to DIN EN 50155
Fire protection on railway vehicles	following to DIN EN 45545-2
Contact holder	Thermoplastic HL3 according to R22 EN 45545-2
Sealings	Elastomer
Shock and vibration	DIN EN 50155:2018-05, DIN EN 61373:2011-04 Class 1 Category B
Salt spray	DIN EN 50155:2018-05, (DIN EN 60068-2-11:2000-02/ 48h test KA)

Classifications

ETIM 7.0	EC001121
ETIM 8.0	EC001121
ETIM 9.0	EC001121
ETIM 10.0	EC001121

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Technical Data**Packing details**

Type of packaging 10 pc(s) / box

Application note

This product is a standard product of METZ CONNECT. METZ CONNECT is not aware of the specific intended use of the goods by the Customer or any customers of the Customer. The Customer guarantees that it has fully and sufficiently tested the use of the goods and any product modifications, product changes or product enhancements with regard to the specific intended use in accordance with the state of the art or in any other way. At METZ CONNECT's request, the Customer shall submit and make available meaningful evidence (e.g. test and laboratory protocols, certifications, etc.).



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Accessories

P/N	Designation
130863T101E	Click & fix 19 inches frame for cable connector 1RU



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Accessories from

P/N	Designation
130862-1H20-E	Surface mount housing for 19 inches patch panels 1RU pure white
130862-2H20-E	Surface mount housing for 19 inches patch panels 2RU pure white
14040000-E	MCO IP69k protective housing for outdoor use, set for exposed installation
14040010-E	MCO IP69k Protective housing for outdoor use, set with mounting bracket
14040100-E	MCO IP69k Protective housing for outdoor use, set wall/ housing bushing



Illustrations

Dimensional drawing

