

Data sheet

OpDAT Industry 2LC SM plug insert

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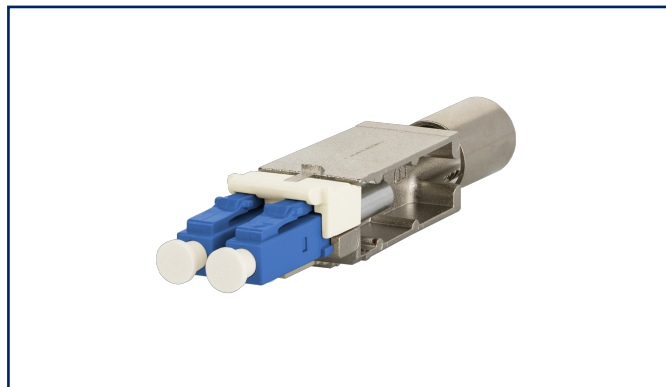
1402900820-I

EAN 4250184114178

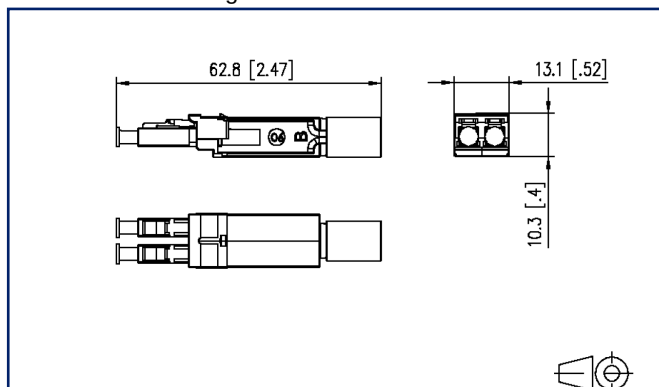
2026/07/30

Version: AE

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- 2LC plug for mounting in IP67 plug housing of variants 1, 4 and 14
- compliance with EN 50173-1 or ISO/IEC 24702 with regard to the limit values for insertion loss and reflection loss
- convex pre-polished pin made of zirconium oxide ceramics
- flame-retardant and halogen-free plastic pin body
- nickel-plated zinc die-cast plug receptacle
- fiber fastened by means of adhering
- cable fastened by means of crimping to pin body and/or to plug receptacle for breakout and mini breakout cables
- min. scope for tension relief 100 N
- anti-bend sleeve made of flame-retardant, halogen-free elastomer
- service life: min. 500 plug-in cycles
- operating temperature -40 °C to +70 °C
- variants: 2LC (SM), 2LC (MM)
- field-terminable only to a limited extent using special tools
- recommendation: Assembly by a professional assembler



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Technical Data

General Data

Fields of application	Industrial Ethernet office areas
Mechanical measurement according to MICE	M1
Ingress measurement according to MICE	I1
Climatic measurement according to MICE	C1
Electromagnetic measurement according to MICE	E3
Design	plug
Transmission technology	Fiber optic
Color	blue
Dimensions	
Dimension (L x W x H)	62.8 mm x 13.2 mm x 10.3 mm
Dimension (L x W x H)	2.472 in. x 0.52 in. x 0.406 in.
Mode type of the fiber	Singlemode
Convex preformed abutting face	yes
Labeling option	on housing

Connections/interfaces

Single fibre diameter (min. - max.)	
Single fibre diameter	0.9 mm
Single fibre diameter	0.035 in. in. (inch)
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5 mm - 10
Cable sheath diameter	0.197 in. - 0.394
Cable access/outlet	180°
Connector interfaces	LC

Mechanical data

Cut-out	SC, LC-D, E2000
Connector type	duplex
Mounting method	snap-in function
Insertion and withdrawal force	max. 30 N
Life - Number of mating cycles	min. 500
Position/mounting of latch standard installation position	top
strain relief	Crimp sleeve



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Materials and material properties

Material - Housing	GD-Zn
Material - Housing finish	Ni (nickel)
Material - Insulating body	plastics, flame retardant and halogen free
Material - Strain relief	Cu (copper)
Material - Cable boot	elastomer, flame-retardant and halogen free
Material - Sleeve	ceramic, slotted
Material - Supporting body	GD-Zn
Material - Supporting body finish	Ni (nickel)
Material - Crimp sleeve	Cu (copper)
Material - Crimp sleeve finish	Ni (nickel)
Material - Dust protection	Plastics
Halogen free	yes
RoHS	compliant

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 °C - 70 °C
Temperature - Storage °F	-40 °F - 158 °F
Temperature - Operating °C	-40 °C - 70 °C
Temperature - Operating °F	-40 °F - 158 °F
Rapid change of temperature	-40°C / -40°F - 85°C / 185°F 25 cycles t=30 min
Damp heat	-40°C / -40°F / +85°C / 185°F rh max=85% / rh min=20% / 21 cycles

Standards/Regulations

Generic cabling systems	
General requirements	ISO/IEC 11801:2002 ANSI/TIA-568-C
Industrial area	ISO/IEC 24702 AMD 1 DIN EN 50173-3 ANSI/TIA-1005
Industrial communication networks Installation in industrial premises	DIN EN 61918 Draft
Fibre optic connector interfaces	LC - IEC 61754-20
Connector sets and interconnect components to be used in optical fibre communication systems	DIN EN 50377-7



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Technical Data**Classifications**

ETIM 7.0	EC001122
ETIM 8.0	EC001122
ETIM 9.0	EC001122

Packing details

Type of packaging	10 pc(s) / box
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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 from

P/N	Designation
1401015000ME	Industry IP67 V1 metal plug housing
1401015002KE	Industry IP67 V1 plug housing
1401025000ME	Industry IP67 V1 metal plug housing bend protected
1401025002KE	Industry IP67 V1 plug housing bend protected
1401045002KE	Industry IP67 V4 plug housing
1401055002KE	Industry IP67 V4 plug housing bend protected
14010850F0ME	E-DAT Industry IP67 V14 plug housing for FO unequipped
14010950F0ME	E-DAT Industry IP67 V14 plug housing bend protected for FO unequipped



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