

Data sheet

OpDAT Industry 2SC SM plug insert

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P/N
1402600822-I

EAN 4250184124856

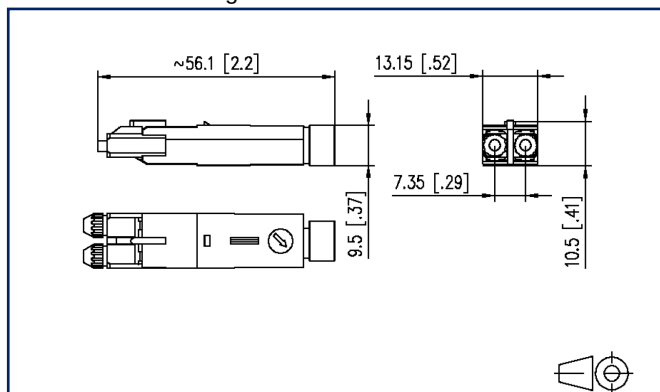
2026/08/24

Version: AE

Illustrations



Dimensional drawing



See enlarged drawings at the end of document

Product specification

- SC-RJ/2SC 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
- plastic plug 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
- suitable for connection to cables acc. to PROFINET specification
- min. scope for tension relief 100 N
- anti-bend sleeve and dust protection cover made of flame-retardant, halogen-free elastomer
- Service life: min. 500 plug-in cycles
- operating temperature -40 °C...+65 °C
- variants: SC-RJ/2SC (SM), SC-RJ/2SC (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	black
Dimensions	
Dimension (L x W x H)	56 mm x 13.15 mm x 10.5 mm
Dimension (L x W x H)	2.205 in. x 0.518 in. x 0.413 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	2.5 mm - 3 mm
Single fibre diameter	0.098 in. - 0.118 in. in. (inch)
Cable sheath diameter (min. - max.)	
Cable sheath diameter	5 mm - 8 mm
Cable sheath diameter	0.197 in. - 0.315
Cable access/outlet	180°
Connector interfaces	SC

Electrical characteristics

Insertion loss	Singelmode: max. 0.5 dB
Return loss	min. 40 dB

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Mechanical data

Cut-out	SC, LC-D, E2000
Connector type	simplex
Mounting method	snap-in function
Insertion and withdrawal force	max. 30 N
Life - Number of mating cycles	min. 750
strain relief	Crimp sleeve

Materials and material properties

Material - Housing	Plastics
Material - Insulating body	GD-Zn
Material - Finish of insulating body	Ni (nickel)
Material - Cable boot	TPE
Material - Sleeve	ceramic, slotted
Material - Ferrule	Ceramic
Material - Crimp sleeve	Cu (copper)
Material - Crimp sleeve finish	Ni (nickel)
Material - Dust protection	TPE
Halogen free	yes
RoHS	compliant

Environmental conditions

Temperature (min. - max.)	
Temperature - Storage °C	-40 °C - 65 °C
Temperature - Storage °F	-40 °F - 149 °F
Temperature - Operating °C	-40 °C - 65 °C
Temperature - Operating °F	-40 °F - 149 °F

Standards/Regulations

Generic cabling systems	
Industrial area	ISO/IEC 24702 AMD 1 DIN EN 50173-3 ANSI/TIA-1005
Fibre optic connector interfaces	SC - IEC 61754-4

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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.

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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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