Telegärtner

KARL GÄRTNER GMBH
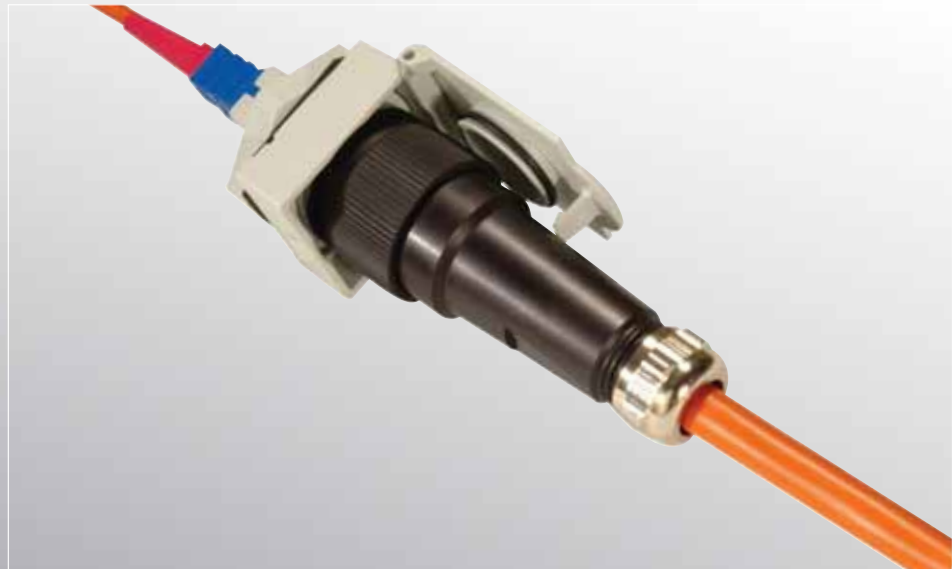
NETWORKING COMPONENTS

COAXIAL CONNECTORS

CABLE ASSEMBLIES

PRECISION TURNED PARTS

PLASTIC INJECTION MOULD PARTS

INDUSTRIAL ELECTRONICS

FO Connector IP67 Industry

FO Connector 2xSC IP67 with threaded coupling mechanism

This newly developed FO connector system is particularly optimized for Fibre Optics, and offers high reliability even in harsh environmental conditions.

Connected or not connected – the system is dust- and water-proof in accordance with Protection Class IP 67. The components, suitable for glass fibres as well as for polymer fibres, consist of a Flange Mounting Outlet with two feed-through adaptors type SC and one Duplex connector with 2 SC ferrules. Both are fixed together using a rigid metal screw. They can be field terminated using standard tools; a version with 2 additional electrical contacts for power supply is also available.

Optical and climatic characeristics

- Insertion loss with fibres 50/125: max. 0,4 dB[1]
- Insertion loss with fibres 9/125: max. 0,5 dB[1]
- Environmental Classes M1, I3, C3, E3 acc. to Draft ISO/IEC 24702 Febr. 2005
- UV resistant plastic, UL94 V0

Mechanical characteristics

- Polarization-proof connector interface 2xSC with 2.5 mm ferrules and spacing as "SC-RJ" (prEN 50377-6-2)
- rigid screw fixing with metal knurl nut
- optional version with 2 electrical contacts available e.g. for PoE, max. load 5 A
- Colour coding: Multimode = grey, Singlemode = blue

Performance characteristics Plug

- Protection class IP67 ensured - also disconnected - due to screw-fixed, captive protection cap with pulling eye
- automatic spring-loaded protective sleeve for fibre end face protection
- robust and non-crush metal housing
- field termination with common tools for SC connectors
- Strain relief with crimp sleeve, sealing by cable gland
- for cable dia. 4.5 mm up to 6 mm resp. 8 mm max. without boot
- Dimensions: Length without boot = 100 mm, 27 mm dia.

Performance characteristics Flange Mounting Outlet

- Protection class IP67 ensured also for disconnected outlet due to integrated protection swivel lid
- polarization-proof connection interface
- Adaptor housing offers 4x90° different mounting positions
- internal connection for 2xSC Simplex or 1xSC-RJ
- screw fixing with hex nut size M25x1,5 for wall thickness up to 5mm or with 4x M3 screw for wall thickness more than 5mm, mounting cutout 25 mm dia.
- Dimensions: B = 32,5 mm, H = 43 mm, D = 12 mm

[1] Measurement procedure acc. to IEC 61300-3-4, method B, 1310 nm

Plug with protective cap

Plug with protective sleeve

Plug insert with el. pins

Flange Mounting Outlet closed

Flange Mounting Outlet parts

Flange Mounting Outlet ass.

Order no.	Description	Remark
J08083A0000	Plug 2xSC IP67 for Multimode	for field termination
J08083A0001	Plug 2xSC IP67 for Singlemode	for field termination
J08083H0000	Hybrid plug 2xSC IP67 for Multimode incl. 2 electr. contact pins	for field termination suitable for AWG 22-24
J08083H0001	Hybrid plug 2xSC IP67 for Singlemode incl. 2 electr. contact pins	for field termination suitable for AWG 22-24
J08084A0000	Flange Mounting Outlet 2xSC IP67 for Multimode	
J08084A0001	Flange Mounting Outlet 2xSC IP67 for Singlemode	
J08084H0000	Hybrid Flange Mounting Outlet 2xSC IP67 for Multimode incl. 2 electr. contact sockets	suitable for AWG 22-24
J08084H0001	Hybrid Flange Outlet 2xSC IP67 for Singlemode incl. 2 electr. contact sockets	suitable for AWG 22-24