Wall Bushing for M12 Connector System

1 General

The M12 optical fibre wall bushing forms the logical interface between the IP67class of the M12 fiber optic connector system and the IP20 environment in the switch cabinet.
The M12 fiber optic wall feed-through is designed for enclosure walls up to 7mm.
Spring-loaded M12 plug-in contacts with integrated ceramic sleeves are used on the IP67 retainer side for the unsprung contacts on the IP20 side.
The M12 fiber optic panel feed-through is designed for applications with M12 electrical contacts, so that hybrid applications can also be implemented.
The IP20 side can be connected with corresponding patch cables to the everyestablished fiber optic interface (e. g. LC, SC, ST). Thus the system can be easily integrated into existing topologies.

2 Features

- M12 connector system
- protection class IP67 to IP20
- 50/125µm GI-fiber contacts
- 200/230µm PCF contacts
- 1/2.2mm POF contacts
- 50V / 4A el. contacts (AWG20)
- shock-proof according DIN EN 61300-2-9 and 60512-6-3
- vibration-resistant according DIN EN 61300-2-1 and 60512-6-4
- corrosion resistance according IEC 61753
- halogen free
- material listing according UL V0
- RoHS compliant

3 Application

Due to its good optical and mechanical properties, the coupling for the M12 fiber optic system connector is suitable for many applications:

- optical networks
- industrial electronics
- power electronics

Pic. 1 *M12 Wall Bushing POF*

Pic. 2 *M12 Wall Bushing without inserts*

4 Ordering Information

Description	Order number
M12 Fiber optic wall bushing for GOF cable	94KH0125CM000M120-01
M12 Fiber optic wall bushing for PCF cable	94KH0235CM000M120-01
M12 Fiber optic wall bushing for POF cable	94KH1050CM000M120-01

Wall Bushings are shipped with dust protection caps.

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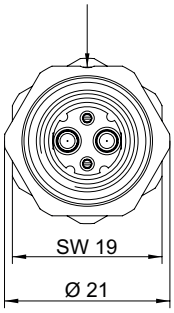
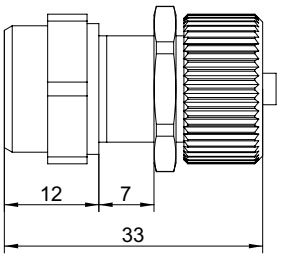
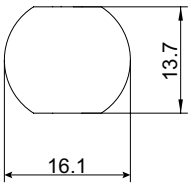
5 Drawing

Index upperside / oben





Cut out area / Durchbruch



6 Technical data

Characteristics	Parameter	Value
Insertion loss	1mm POF 200/230µ PCF 50/125µ GI	max. 1.5dB max. 1.5dB max. 0.75dB
Return loss	1mm POF 200/230µ PCF 50/125µ GI	n.a. n.a. min. 20dB
Rated current el.-contact	DC	max. 4A
Rated voltage	DC	max. 250V
Protection class		IP67
Mating cycles		min. 100
Connector weight	with optical contacts	34g
Temperature range		-40 .. +85°C

CAUTION!

The assembly of system components (transceiver, connectors and couplings) has to be made with manual/hand force!!!

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