

Fischer FiberOptic Series

Connect²

Expertise | Reliability | Innovation



Robust Optical Performance

Fiber optic & fiber optic hybrid solutions

www.fischerconnectors.com

fischer[®]
CONNECTORS

FISCHER FIBEROPTIC SERIES

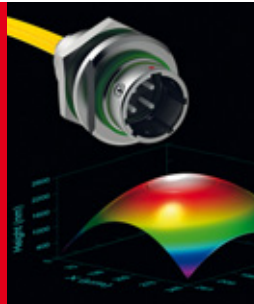
KEY FEATURES

DURABILITY



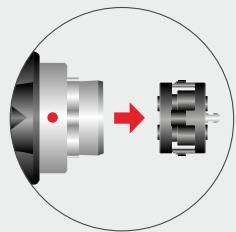
- IP68 Mated
- IP67 Unmated
- 1,000 mating cycles
- Performs under extreme environment
- High optical stability

PERFORMANCE



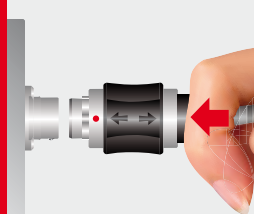
- Low back reflection
- SM & MM Optical Fibers
- UPC & APC Polishing
- High-End butt joint technology

EASY CLEANING



- Removable mono-block mate adapter for easy access to ferrules
- Easy maintenance
- Easy field cleaning

EASY MATING



- Push-Pull connector system makes it easy to mate/unmate with one hand
- Easy operation

CERTIFICATION & COMPLIANCE

Fischer Connectors is committed to quality throughout every phase of its operations. The company supports its customers and applies within its organization all directives and norms improving the quality, safety and environmental friendliness of its connectors, processes and systems.

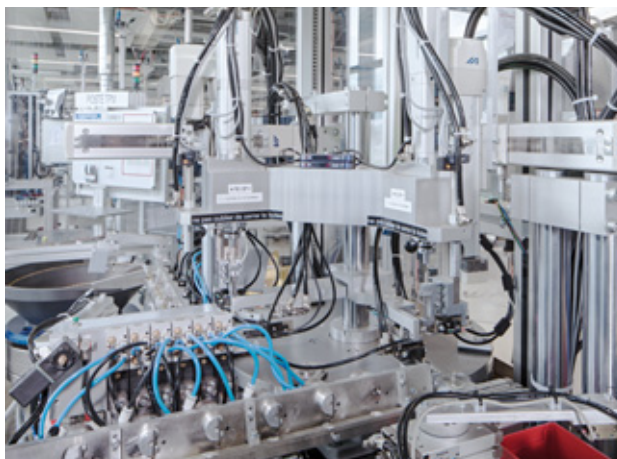
ISO 9001

ISO 13485

ISO 14001




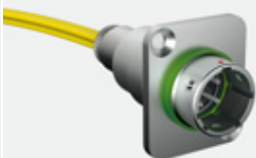
ROHS
compliant

REACH



PRODUCT RANGE

FIBEROPTIC 2&4 FIBERS (FO2 / FO4)

CABLE MOUNTED PLUG	PANEL REAR MOUNTED RECEPTACLE	PANEL FRONT MOUNTED RECEPTACLE	SQUARE FLANGE RECEPTACLE
			
P01	R01	R03	R13

CABLE MOUNTED RECEPTACLE	PANEL REAR MOUNTED RECEPTACLE - GAS TIGHT	PANEL FRONT MOUNTED RECEPTACLE - GAS TIGHT	SQUARE FLANGE RECEPTACLE - GAS TIGHT
			
R50	R01	R03	R13

For more detailed information, please consult the Fischer FiberOptic Series Technical Specifications available on www.fischerconnectors.com

TECHNICAL DATA

OPTICAL DATA valid for FiberOptic 2&4 fibers (FO2, FO4) & Hybrid (FOH 2-2)

Characteristic	Performance		Standard
Insertion loss	SM and MM	≤0.20 dB mean	IEC 61300-3-34 Random mated
		≤0.45 dB max for >97% of samples	
		≤0.2 dB change during and after testing	IEC 61300-3-3
Return loss	SM UPC	≥50 dB	IEC 61300-3-6 Random mated
	SM APC	≥70 dB (mated) and ≥50 dB (unmated)	





ENVIRONMENTAL & TECHNICAL SPECIFICATION valid for FO2, FO4 & FOH 2-2

Characteristic	Performance	Standard
Sealing mated	IP68; 2m submersion for 24 hours*	IEC 60529
Sealing unmated	IP67*	IEC 60529
Operating temperature range	-40°C to +85°C (depending on fiber optic cable)	IEC 61300-2-22
Vibration	Sinusoidal, 10 - 55Hz, 3 axes, 0.75 mm amplitude	IEC 61300-2-1
Shock	100 g	IEC 61300-2-9
Salt mist	1,000 hours, 5% salt solution, 35°C	IEC 61300-2-26
Mating durability	1,000 mating cycles	IEC 61300-2-2

* No panel sealing for R13 receptacle.

PRODUCT RANGE

FIBEROPTIC HYBRID (FOH 2-2)

CABLE MOUNTED PLUG	PANEL REAR MOUNTED RECEPTACLE	PANEL FRONT MOUNTED RECEPTACLE	SQUARE FLANGE RECEPTACLE
			
P01	R01	R03	R13

CABLE MOUNTED RECEPTACLE	PANEL REAR MOUNTED RECEPTACLE - GAS TIGHT	PANEL FRONT MOUNTED RECEPTACLE - GAS TIGHT	SQUARE FLANGE RECEPTACLE - GAS TIGHT
			
R50	R01	R03	R13

For more detailed information, please consult the Fischer FiberOptic Series Technical Specifications available on www.fischerconnectors.com

TECHNICAL DATA

ELECTRICAL DATA valid for FOH 2-2 only

Characteristic	Performance	Standard
Contact count	2 contacts, ground by shell	-
Current Rating	10 [A] ¹⁾	IEC 60512-5-2-5b
Rated Voltage	400 [V] r.m.s. ^{2) 3)}	IEC 60512-3-5b
Contact resistance (power contact)	< 10 mΩ	IEC 60512-2-1-2a
Contact resistance (mass contact)	< 50 mΩ	IEC 60512-2-1-2a
Insulation resistance	> 10 ¹⁰ Ω	IEC 60512-3-1-3a ¹⁾
Contact termination	Solder	-
Wire Size ⁴⁾	AWG17 / 1 mm ²	-
Test Voltage AC	1.5 [kV] r.m.s	IEC 60512-4-1 Test 4a
Test Voltage DC	2.8 [kV]	IEC 60512-4-1 Test 4a

1) Recommended max. operating current per 40°C temperature rise measured according to IEC 60512-3-5b.

2) Recommended operating voltage at sea level measured according to IEC 60664-1.

This rated voltage is a general purpose guideline where no other electrical standard applies. In case where other standard rule a specific use of the connector the application-specific safety criteria shall be considered first. This must be evaluated within the framework of equipment engineering. In cases where other calculation methods are preferred, please use the Test voltage to determine the specific Operating voltage.

3) Based on IEC 61984 safety requirements, Fischer Connectors SA recommends that, for operating voltage > 50V, power should not be used without integration of an active security system. Please contact us for further information.

4) Check cable specifications for details.

For more detailed information, please consult the Fischer FiberOptic Series Technical Specifications available on www.fischerconnectors.com

FISCHER FIBEROPTIC SERIES

ROBUST OPTICAL PERFORMANCE

Fischer FiberOptic Series can be used in a wide range of fields requiring faultless quality in indoor, outdoor or for demanding applications such as Transport, Telecom, Energy, Fiber Sensing, Defense & Security, Broadcast, Civil Construction or Medical Devices.

BROADCAST



TELECOM



MEDICAL



ENERGY



TRANSPORT



SECURITY



EXTREME



OIL & GAS



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