

Product description

Planar lightwave circuit (PLC) optical splitters for single mode fiber applications.
The product is intended for indoor usage only.

Safety instructions

An optical splitter is a passive optical network (PON) component and does not emit light energy by itself.
It can become dangerous when working with a high level optical powered laser system.

When operating the equipment note the following:

Most fiber optic laser wavelengths (1260 nm...1650 nm) are invisible to the eye and will cause permanent eye damage.

Never look into the end of fiber on a powered device with any sort of magnifying device. This includes microscopes, eye loupes and magnifying glasses. Always double check that power is disconnected before using such devices. If possible, completely disconnect the unit from any power source.

Always use instruments, such as an optical power meter, to verify the light output.

Operate only with the proper optical fiber installed in the optical connector.

The laser transmitter should be turned off whenever the optical connector is empty.

Always connect fiber to the output of the device before power is applied.

Never leave equipment with radiating bare fibers accessible - always cap the connectors.

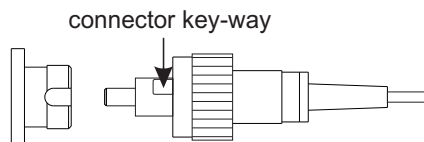
Optical connections

Note: All optical connectors and adaptors should be cleaned before connecting them.

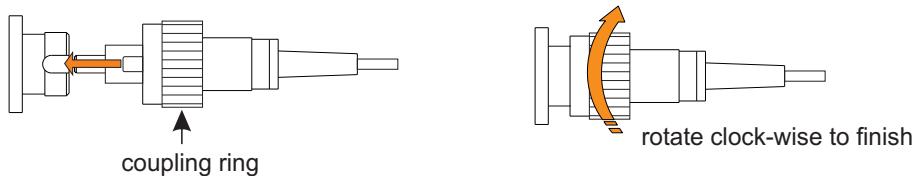
If optical reception power of the receiver decrease, fiber connection should be cleaned and maintained.

Fiber connectors should never be left uncovered.

1. Align the FC type connector key-way (type R) with the receptable key-way.



2. Push firmly to locate the key-ways and then rotate the coupling ring.



3. Do not exceed the minimum bending radius of fibers: must be not less 30 mm when connecting optic cable to the system.


Installation instructions

Read the safety instruction first.

The splitter must be fixed with steel screws \varnothing 2.9 - 4 mm. Screws are not included in a package.

Technical specifications

Type	FOS102	FOS104	FOS108	FOS116	FOS132
Number of outputs	2	4	8	16	32
Operating wavelength	1260-1650 nm				
Insertion loss, max.	3.9 dB	7.4 dB	10.8 dB	14.1 dB	17.3 dB
Loss uniformity, max.	0.6 dB	0.6 dB	0.8 dB	1.2 dB	1.5 dB
Return loss	> 45 dB				
PDL, max	0.2 dB	0.2 dB	0.3 dB	0.3 dB	0.3 dB
Directivity, min	55 dB				
Optical input power, max.	300 mW				
Operating temperature range	-20° ÷ + 50° C				
Dimensions	117x96x34 mm	117x106x34 mm	117x106x50 mm	182x106x50 mm	
Weight (packed)	0.26 kg		0.30 kg		0.46 kg

 This product complies with the relevant clauses of the European Directive 2002/96/EC. The unit must be recycled or discarded according to applicable local and national regulations.

 Equipment intended for indoor usage only.

 This product is in accordance to following norms of EU: EMC norm EN50083-2, safety norm EN IEC62368-1 and RoHS norm EN50581.

 This product is in accordance with Custom Union Technical Regulations: "Electromagnetic compatibility of technical equipment" CU TR 020/2011, "On safety of low-voltage equipment" CU TR 004/2011.

 This product is in accordance with safety standard AS/NZS 60065: 2012 and EMC standards of Australia.