

DIAMOND

Fiber Optic Components

NETWORK ACCESSORIES

DESCRIPTION

These in-line fixed attenuators provide a precise and repeatable amount of light loss (attenuation) via a doped fiber. This results in wavelength independent and stable attenuation values for typical wavelength bands used in telecommunication applications (1260-1360 and 1460-1580 nm). The OAF SC high performance attenuators, is suitable for optical power up to +20dBm. These high performance attenuators are available in SM PC and high return loss (HRL) APC versions, and are fully compatible with all SC-PC and SC-APC connectors and mating adapters.

SPECIFICATIONS

	SINGLE MODE 0° PC					SINGLE MODE 8° APC					UNITS
Fiber	9/125										μm
Wavelengths	1260-1360 and 1460-1580										nm
Nominal attenuation	2	4	5	6	10	15	20	25	30		dB
Tolerance*	±0.5	±0.5	±0.5	±0.5	±1	±1.5	±2	±2.5	±3		dB
Repeatability	<0.5 over service life										dB
Service life	1000 matings (According to field experience)										
Return loss	>45					>65					dB
Change in attenuation with temperature*	±0.2 (-25/+70°C)										°C

* Values measured using 1310 or 1550 nm LED source. Additional IL induced by modal noise 0,05 dB/dB. The excess attenuation due to the 2 connections may be as high as 0.5 dB max.

TYPES AND DIMENSIONS

OAF SC SM

Available types:

OAF SC PC SM
OAF SC APC SM

Ferrule type:

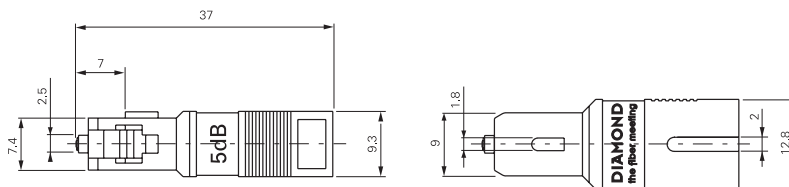
Standard ø2.5 mm Zirconia/metal insert

Alignment sleeve:

Zirconia

External parts:

Standard blue plastic housing for PC,
and green for APC version



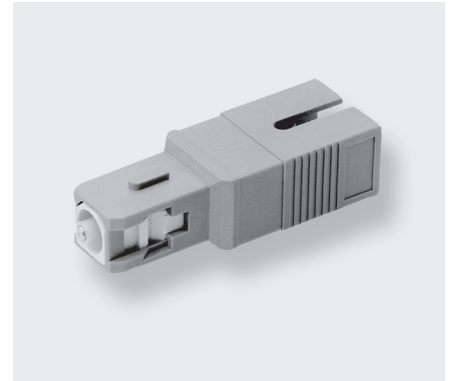
ORDER INFORMATION

To order OAF SC, please refer to the part numbers provided in the enclosed P/N list.

Other versions, as well as attenuation values and fiber types available upon

OAF SC

SINGLE MODE PC
SINGLE MODE APC



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Specifications subject to change
without notice

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