

Plug-Type (Male/Female) Attenuators **CAA series – Singlemode**

Description:

The plug-type singlemode attenuators are used directly on the ends of fiber optic jumpers prior to installation in adapters. These attenuators provide a fixed precise level of attenuation and feature excellent return loss. Low wavelength dependency determines them for using in WDM and DWDM transmission systems. The CAA series attenuators are available with UPC or APC polish for SC, FC, DIN and LC connector types and UPC for ST and MU connectors.



Features:

- Connector/adapter plug type
- Precise attenuation
- Wide attenuation range, 1 dB step
- Return loss:
 - > UPC 50 dB
 - > APC 60 dB
- Low ripple broadband design for operation at wavelength 1250 to 1650 nm
- High power endurance

Application:

- Fiber optic systems
- Receiver padding for optical receiver protection
- Optical power equalization
- Linearity and dynamic range testing in laboratory equipment

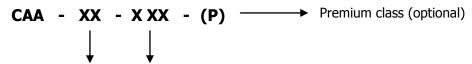
Specifications:

Attenuation range Operational wavelength	SC, FC, ST, MU: 1 – 2 DIN: 5, 10, 15, 20 dB 1250 to 1650 nm	0 dB, step 1 dB	
Operational wavelength	1250 to 1650 nm		
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1		1250 to 1650 nm	
Stability ¹	Standard	Premium	
attenuation range 1 - 4 dB	±0.5 dB	±0.5 dB	
attenuation range 5 - 9 dB	±0.8 dB	±0.5 dB	
attenuation range ≥10 dB	±10%	±0.5 dB	
Return loss	Standard	Premium	
UPC polishing	≥ 50 dB	≥ 55 dB	
APC polishing	≥ 60 dB	≥ 65 dB	
Side load test (EN 61300-2-24)	≤ 0.2 dB/1 N (OPTOKON adapter)		
Power durability	250 mW		
Operating temperature	-40 to 80 °C		
Storage temperature	-40 to 80 °C		

Note: 1) -40 to +80°C over 10 cycles



Ordering Code:



Attenuation				
01 -	20 dB			

	Connector/Adaptor Type			
UPC FC,		/UPC		
NPC	FC,	FC/APC, 2.05 standard		
NPC21	5 FC,	FC/APC, 2.15 standard (on demand)		
USL	ST	/UPC		
USC	SC	/UPC		
NSC	SC	/APC		
ULC ²	LC/	'UPC		
NLC-K	³ LC/	'APC		
UDIN	DII	N/UPC		
UMU	MU	/UPC		
Note:	2) LC type 3) LC-K type	only blue (LC/UPC) available only green (LC/APC) available		

Dimensions:

Туре	Length	Width	Note
FC	28.5 mm	10.0 mm	
SC	32.0 mm	7.5 mm	
ST	35.5 mm	10.0 mm	
DIN	56.0 mm	6.5 mm	
LC-(S) ⁴	28.5 mm	6.25 mm	Single latch
LC-K	25.0 mm	6.9 mm	Double latch
MU	30.0 mm	6.1x8.5 mm	

4)CAA-XX-ULC compatible with all types of LC adapters according to the: ADP_02-01_EN-LC_adapters cAA-XX-ULC-S suitable for both, adapters and transceivers (SFF, SFP, XFP, SFP+, ...) – available on request

Samples of Attenuators:

