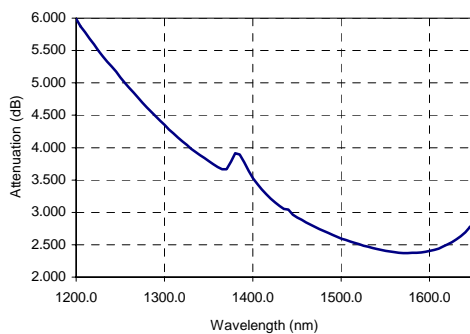




Singlemode ARF Attenuation Reference Fibre



The Attenuation Reference Fibre (ARF) consists of a spool of singlemode fibre, which is mounted in a protective case for an optimum mechanical and thermal stability. The spectral attenuation of the fibre is calibrated by using a “cut-back” technique, according to IEC 60793-1-40 and the attenuation homogeneity is calibrated by comparison with a reference optical time domain reflectometer. This artefact is designed for use under standard laboratory conditions. The Attenuation Reference Fibre is ideally suited for the calibration of the attenuation scale of OTDR, according to IEC 61746.



Typical Spectral attenuation of a 12 km G652 ARF.

Specifications

Available fibre types

Singlemode G652, G653, G655

Typical Fibre lengths

10 - 12 km,
other length available on request

Calibrated quantities and uncertainties (*)

Spectral attenuation $A(\lambda)$

$U_A = 0.03$ dB

Attenuation uniformity $D(\lambda)$

$U_D = 0.009$ dB / dB

Fibre optical length L

$U_L = 0.11$ m @ $L = 12$ km

Wavelength domain

1200 nm - 1650 nm, other domains on request

Connectors

Flat or angled, with Multipurpose Adapter System.

Available adapters: E-2000, FC, SC, ST.

Pigtailed version also available

(*) These values correspond to typical uncertainties, which may vary depending on fibre type and length.

Ordering Information: ARF – a – b – c/x – d/x

a fibre type	b fibre length in meter	c input connector type	d output connector type	x Configuration
G652 G653 G655		FCPC FCUPC FCAPC E2000	FCPC FCUPC FCAPC E2000	A: Multipurpose adapter P: fixed pigtail, length 2 m.