SofeTEK Optical Fiber Patch cord

Attenuated Patch Cord

SofeTEK LTD high performance attenuated patch cords are used to attenuate the optical signal in a link. Attenuated patch cords can be installed in place of conventional patch cords to provide a constant level of attenuation with a return loss of >50 dB.

The attenuated patch cord can be used to replace the conventional cable assembly and attenuator combination. It is a compact, multi purpose passive device designed to operate at the 1310 and 1550 nm wavelengths.

Attenuated patch cords can be provided with various connector styles SC, ST and FC to meet customer’s requirements. SofeTEK attenuated patch cords come to you from a world class manufacturing facility backed by 20 years of experience in manufacturing fiber optic passive and active devices. Products coming out of this facility have found worldwide applications in computer networking, telecommunications and cable TV.

Features
- Provides the functions of attenuator and cable assembly simultaneously
- Low Back Reflection
- 100% Insertion Loss Testing
- Connector varieties available
- Conforms to the requirements of EIA/TIA standards
- Inexpensive and compact

Applications
- Telecommunication Networks
- CATV
- LAN and WAN
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Description
The SofeTEK optical fiber patch cords are manufactured using the best quality components. The connectors are the market leading SofeTEK range of connectors, and the cable exceeds all areas of the standards.
The SofeTEK range of patch cords has grown through the years, from industry standard 62.5/125 multimode to 9/125 singlemode, SofeTEK can supply them all.
Non-standard cables can be made to your own exacting standards in our ISO 9001 UK production facility. This encompasses all of the essential tools to ensure the products not only meet but also exceed the requirements laid down in IEC international standards for fibre optic terminations.
For full information on the SofeTEK connectors used on the SofeTEK patch cords, please contact SofeTEK at the address below for a connector data sheet.

Intermateability
Optically and mechanically compatible with all equivalent connectors.
Compliant with IEC 874-14.

Product Packaging
Each patchcord is packaged individually and individually identified for traceability, test certification is supplied for each assembly.

Available Attenuation
1.0 To 20 dB with 1dB increments

Attenuation Tolerance
For = 5dB : ± 0.5 dB;
For >5dB : ± 10% of nominal value

Back Reflection
>55 dB (UPC)
>60 dB (APC)

Operating Wavelength
1310nm, 1550nm, 1310 and 1550nm

Connectorization
SC, FC & ST

Length
0.5M UPTO 10M (tol +0.1/-0.05 )
10M TO 20M (tol +0.2/-0.1)
(Other lengths available on request)

Fiber type
Corning SMF-28

Temperature Cycling
(IEC 874-1 sec. 4.5.22)
-40 to +75°C, 40 cycles
=0.2dB Change

Vibration (Mated Pair):
(IEC 874-1 sec. 4.5.1)
10-55 Hz, 1.5mm P to P
=0.3dB Change

High Temperature:
(IEC 874-1 sec. 4.5.18)
75°C for 96 hours
=0.2dB Change

Mating Durability:
(IEC 874-1 sec. 4.5.32)
1000 mating cycles
Clean every 25
< 0.2 dB Change

Damp Heat:
(IEC 874-1 sec. 4.5.19)
60°C at 95% RH, 96 hours
=0.2dB Change

Operating Temperature:
-40°C to +85°C