

Attenuated Patch Cord



Optronics 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 chords 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 1550nm wavelengths.

Attenuated patch cords can be provided with various connector styles SC, ST and FC to meet customer's requirements.

Optronics Attenuated patch cords comes to you from a world class manufacturing facility backed by 20 years of experience in manufacturing fibre 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

Specifications

Description

The Optronics optical fibre patch cords are manufactured using the best quality components. The connectors are the market leading Optronics range of connectors, and the cable exceeds all areas of the standards.

The Optronics range of patch cords has grown through the years, from industry standard 62.5/125 multimode to 9/125 singlemode, FibreFab 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 Optronics connectors used on the Optronics patch cords, please contact FibreFab 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 ≤ 5 dB : ± 0.5 dB;
For >5 dB : $\pm 10\%$ of nominal value

Back Reflection

>45 dB (PC)
 >50 dB (SPC)
 >55 dB(UPC)
 >60 dB (APC)
 >65 (Enhanced 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

High Temperature:

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

Damp Heat:

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

Vibration (Mated Pair):

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

Mating Durability:

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

Operating Temperature

-40°C to +85°C

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