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## SM LC/APC duplex adapter

The single-mode LC/APC duplex fiber optic adapter is a crucial component in passive fiber optic networks, used to connect single-mode patch cords terminated with LC/APC connectors. This adapter enables precise connection of optical fibers in an air gap using optical plugs, ensuring high signal quality and minimal losses. Single-mode LC/APC duplex adapters are commonly used in telecommunications networks, data centers, CATV systems, broadband networks, and military and medical applications. Due to their properties, they are particularly useful in places where high reliability and data transmission quality are required.



# **Technical specifications**

SM LC/APC duplex adapter

IL attenuation	0,2 dB
Type of adapter	SM
Adapter type	LC/APC
Adapter version	duplex
Operating temperature range	-40°C / +85°C



### **High Centering Precision**

The adapter ensures precise centering of connected 1.25 mm diameter ferrules, which is crucial for maintaining optical signal integrity. Precise centering minimizes signal loss and ensures low connection attenuation.

#### **Very Low Attenuation**

The adapter is characterized by very low attenuation, which is essential for maintaining high-quality data transmission in fiber optic networks. The attenuation in LC/APC duplex adapters is 0.2 dB, making them ideal for use in demanding network environments.

### **Connector Type**

APC (Angled Physical Contact) connectors have an 8-degree angled cut, which reduces light reflection and improves signal quality.

 ${\tt LC}$  (Lucent Connector) connectors are smaller than traditional SC connectors, allowing for denser port packing in network devices.