



02S1-OAL3-0xxx

single-mode

SC/PC-LC/APC

duplex

## Single-Mode SC/PC-LC/APC duplex patchcord

The single-mode SC/PC-LC/APC duplex patch cord is a crucial element in modern fiber optic networks, enabling reliable and stable connections between devices equipped with SC/PC and LC/APC connectors. Thanks to its advanced design, it ensures high signal quality and minimal losses, which is essential for efficient data transmission. Duplex fiber optic patch cords are segments of optical fibers terminated with connectors on both ends. They are manufactured as standard with an internal cable diameter of 2.0mm, 2.4mm, or 2.8mm. There is a possibility of manufacturing with special cable and in a conduit.

## Technical specifications

Single-Mode SC/PC-LC/APC duplex patchcord

Insertion loss (IL)	0,25 dB
Return loss (RL) of a APC connector	min. 60 dB
Return loss (RL) of a PC connector	min. 45 dB
Connector type I	SC/PC
Connector type II	LC/APC

### High Signal Quality

The patch cord is equipped with SC/PC (Physical Contact) and LC/APC (Angled Physical Contact) connectors, which provide optimal connection and minimize signal reflections.

Precisely manufactured ferrules with appropriate diameters (2.5 mm for SC/PC and 1.25 mm for LC/APC) guarantee high signal quality and low attenuation.

### Low Attenuation

The patch cord is characterized by very low attenuation, typically below 0.3 dB per connector, which is crucial for maintaining stable and reliable data transmission even over long distances.

### Durable construction

Made from high-quality single-mode fiber, the patch cord is resistant to mechanical damage and ensures long-term reliability. The robust outer construction protects the fiber from bending and other physical damage.