

# Fibre Optic Cabling

## Connectix OS2 Singlemode SC/APC – SC/APC Simplex and Duplex Patch Leads

Commonly used widely in applications such as FTTX, gigabit passive optical network (GPON) and wavelength-division multiplexing (WDM), Connectix OS2 singlemode SC/APC -SC/APC patch leads are manufactured using bend insensitive G.657.A1 or G.675.A2 optical fibre, terminated with standards compliant connectors and 100% tested and certified.

Manufactured with a low smoke zero halogen sheath, Connectix SC/APC – SC/APC patch leads are ideal for connecting hardware within data centre exchanges or within enclosures, street cabinets and patching consumer end FTTX products.

Available in standard, premium and premium low-loss Senko connector formats the SC/APC connector is a zirconia ceramic ferrule with choice of endface types including standard, step, and cone. These endface types allow for faster polishing, and lower insertion loss and back reflection when terminated within Connectix and Senko production procedures, while ensuring maximum repeatability.

The connector body is precision moulded and available in 900um as standard or 2.0mm long boot or 3.0mm long boot formats. The housing and boot are made from UL-rated material and Physical Contact (PC) version is also available.

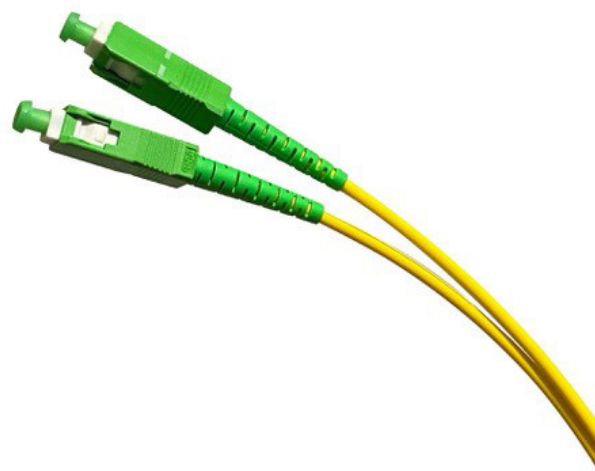
Connectix offers a range of simplex and duplex SC/APC – SC/APC patch leads from stock and a custom length service with fast turnaround service.

### Features

- Compliance with Telcordia, ANSI, IEC, TIA/EIA, NTT and JIS specifications
- Low insertion loss & back reflection\*
- One-piece construction & pull-proof design
- Free-floating ceramic ferrule
- Precision anti-rotation key and corrosion resistant body
- UL-rated plastic housing and boots in a variety of colours
- Telcordia style boots
- Adapters with choice of metal or plastic housing, mount styles & flange options

### Applications

- FTTX
- Metro
- Active device termination
- Test equipment
- Telecommunication networks
- Local Area Networks (LANs)
- Data processing networks
- Premise installations
- Wide Area Networks (WANs)
- Industrial, medical & military



### Product Specifications

Connector Specification	Compliant with IEC 874-14
Ferrule Material	Full zirconia
Insertion Loss	Max. 0.3dB typical 0.2dB
<b>Temperature Range</b>	
Installation	- 5°C to +50°C
Operation	-10°C to +70°C
Crush Resistance	1000N
Nominal Cable Diameter	Zip twin: 2.8 x 5.6 mm Mini zip twin 1.8 x 3.6 mm

# Fibre Optic Cabling

## Connectix OS2 Singlemode SC/APC – SC/APC Simplex and Duplex Patch Leads

Product Series	IL Against Master (dB)		IL Random Mating (dB)	
	Average IL	Maximum IL	Mean IL	Maximum IL
Premium Low Loss APC	0.07	0.15	0.09	0.20
Premium APC	0.10	0.25	0.14	0.30

	Singlemode	Multimode
Operating Temperature	-40°C to + 75°C	-40°C to + 75°C
Durability	<0.1dB typical change, 500 matings*	<0.1dB typical change, 500 matings*

IEC Random mating test IEC 61753-1

- To meet IEC Random Mating Grade A ( $\leq 0.07$ dB mean,  $\leq 0.15$ dB max for >97% of sample)  
Grade A Spec is not finalized, above is a recommendation
- To meet IEC Random Mating Grade B ( $\leq 0.12$ dB mean,  $\leq 0.25$ dB max for >97% of sample)
- To meet IEC Random Mating Grade C ( $\leq 0.25$ dB mean,  $\leq 0.50$ dB max for >97% of sample)

### Ordering Information

Product Description	Part Number
Connectix OS2 Singlemode Simplex SC/APC – SC/APC LSZH Patch Lead	005-813-xxx-01B
Connectix OS2 Singlemode Simplex SC/APC – SC/APC LSZH Patch Lead Premium Loss	005-813-xxx-01
Connectix OS2 Singlemode Simplex SC/APC – SC/APC LSZH Patch Lead Premium Low Loss	005-813-xxx-01C

Connectix OS2 Singlemode Duplex SC/APC – SC/APC LSZH Patch Lead	005-913-xxx-01B
Connectix OS2 Singlemode Duplex SC/APC – SC/APC LSZH Patch Lead Premium Loss	005-913-xxx-01
Connectix OS2 Singlemode Duplex SC/APC – SC/APC LSZH Patch Lead Premium Low Loss	005-913-xxx-01C

[xxx = denotes metre length]

005 = 0.5 metre

010 = 1 metre

100 = 10 metre

[singlemode fibre type confirmed at time of quote/order, i.e G.657.A1 or G.657.A2]