

Legrand cabling system LCS² fibre optic

optic connectors

Technical characteristics

- Connection of connectors on 900 µm fibre
- Maximum attenuation 0.3 dB
- Ideal for high-speed systems: 10 gigabit Ethernet
- Operating temperature: 0 to 65 °C
- Shallow connectors

Advantages:

- High quality finish
- Can be reused 5 times
- Shallow connector, depth less than 40 mm
- Connector factory pre-polished and does not require any glue
- No special tools, easy to transport
- Speed of installation: simple connection process, quick training
It takes less than five seconds to fit the connector

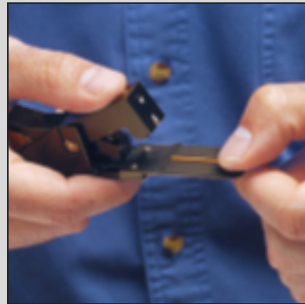
The basic steps

Preparation of the fibre:

Stripping



Cleaving



Inspection



Connection:

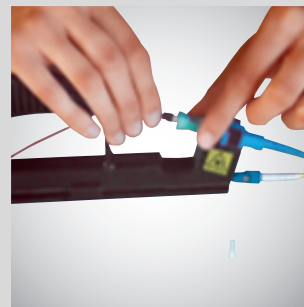
1/ Insert the fibre in the connector



2/ Slide the switch on the connector - the splice is done



3/ Slide the boot onto the connector



Finally, the visual fault locator is used to check the connection.

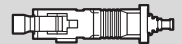
Rapid crimping connectors with tool case Cat.No 0 326 90

Types of connector

- ST connector: Helical shape locked by "push and turn" bayonet type connector



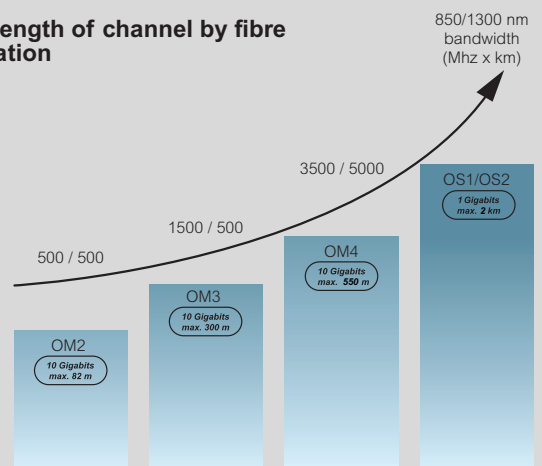
- SC connector: Rectangular shape "push-pull" latch type locking Suitable for a large number of active devices Recommended in the generic standards ISO/IEC 11801 and EN 50173



- LC connector: Rectangular shape tab locking Half the size of a conventional connector



Maximal length of channel by fibre optic application



Applications	Multimode			Monomode
	OM2	OM3	OM4	OS1/OS2
10 Gigabits Ethernet (S/R base)	82 m	300 m	550 m ⁽¹⁾	NA
Giga Ethernet (LX base)	550 m	550 m	550 m	2 km
Giga Ethernet (SX base)	550 m	550 m	1100 m	NA

■ TIA 568

□ Applications IEEE 802.3

1: Engineered solution using a max. cabled fibre attenuation of 3.0 dB/km. If not distance is of 400 m