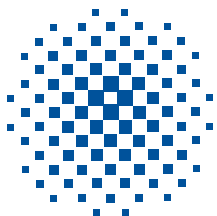
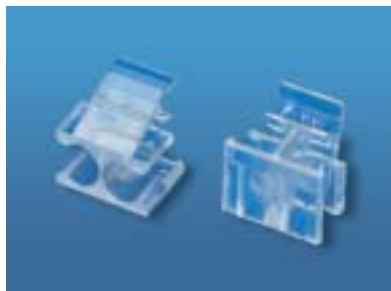
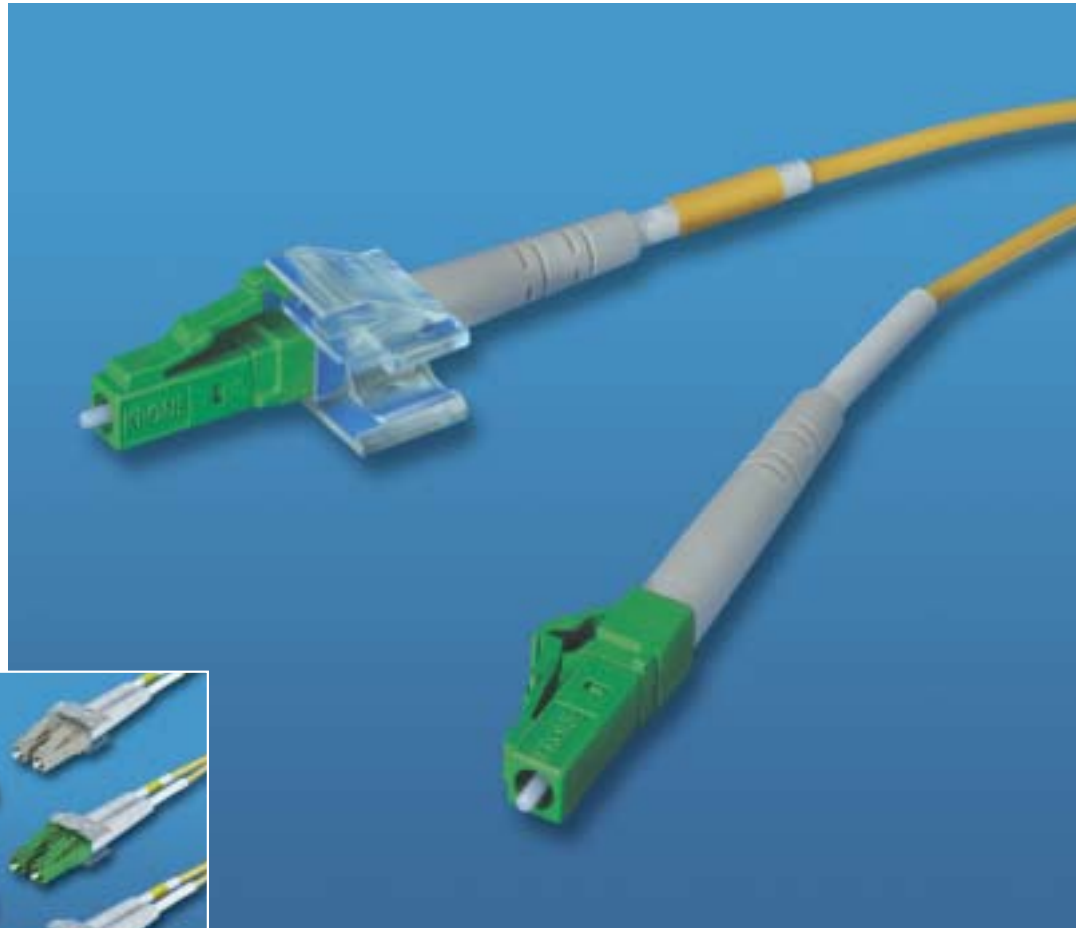


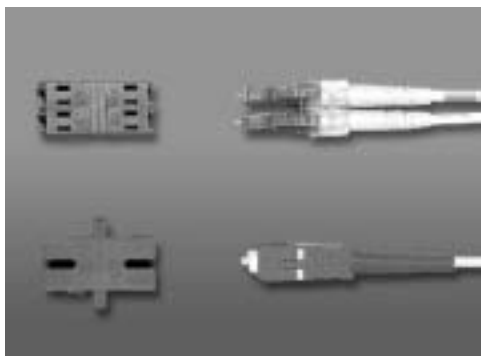
LC CONNECTOR KITS

New generation connection
technology



KRONE®

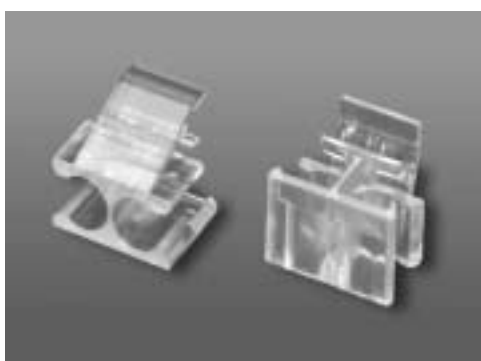
KRONE LC Connections



Size comparison LC duplex with SC simplex



LC/MM, LC/APC, LC/UPC



Duplex Clip

The fibre-optic connection LC represents a technological development of the latest generation. It belongs to the so-called Small-Form-Factor Connectors (SFF), in which the ferrule diameter is only half as large as in conventional connectors.

This miniaturization is the result of the requirements of transmission technology: due to the implementation of ever more compact components fibre-optics connection technology has also been required to introduce higher densities for example, on circuit cards or in 19" patch panels.

The KRONE LC connection combines the advantage of high connection density with ease of handling, while being reasonably priced and quick to install. The connection is available in both simplex and duplex form. The duplex variant has the same dimensions as an SC simplex plug. It is also available with APC polishing (8°) – a unique KRONE feature – which enables single-mode applications to attain a return loss of at least 60dB.

Applications

LC connections are normally used in telecommunication networks, Local Area Networks (LANs) and inhouse cabling systems.

They are used as connection elements for transmission technology in accordance with the recommendations of international norm commissions but also increasingly for patching and jumpering in distribution equipment.

Features and benefits

- Thanks to the mini-ferrule (\varnothing 1.25mm) the LC connector is only half as large as an SC connector, which permits a higher connection density.
- The KRONE LC Duplex through-adaptor has the same dimensions as the SC Simplex through-adaptor; this means that the LC through-adaptor can be used in existing front panels for SC through-adaptors. It is fixed by means of an integrated metal clip.
- As a result of the cable diameter of max. 1.8mm the space requirement for the cable management is less than for 3mm cables; this makes handling during jumper work easier.
- The fully ceramic ferrule also permits installation in damp and harsh environments and with high-energy lasers.
- The snap-in locking elements permits ease of handling (similar to a RJ style connector) and ensures a high tensile strength.
- Duplex connectors are created by placing two simplex connectors together by means of a snap-on clip. A subsequent change in position of the two connectors presents no difficulties. The clip can be used with both duplex and simplex cables.

KRONE LC Connection Kits

Features and benefits

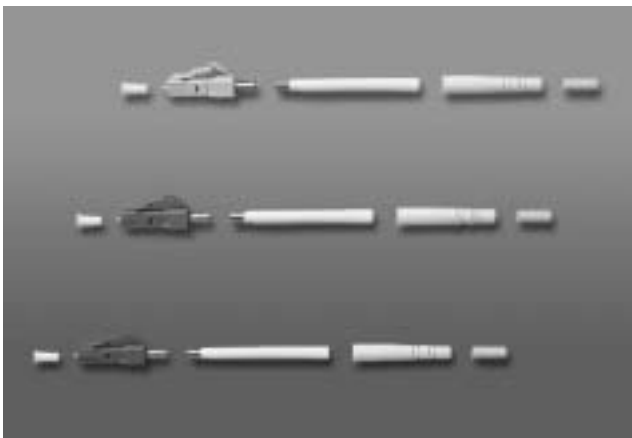
- Easy assembly thanks to a small number of components
- Simple and quick polishing and assembly process
- One connector kits both for simplex and duplex patchcords
- For single-mode fibres with UPC and APC polishing
- For multi-mode fibres (50/125, 62.5/125µm)
- Suitable for industrial production
- The ferrule, after final assemble, can be adjusted using a special tool ("tuning")
- LC duplex clip for putting two simplex connectors together to form the duplex variant.

KRONE offers the whole component spectrum for patch-cord producers

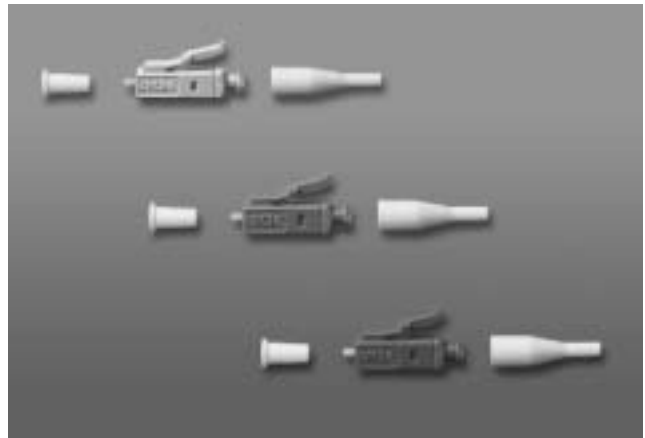
- LC connector kits for multi-mode cables and buffered fibres
- LC connector kits for single-mode cables and buffered fibres with UPC or APC polishing (8°)
- LC duplex through-adaptors for multi-mode and single-mode (UPC and APC)
- Duplex clip for LC simplex connectors with cable
Various accessories

Technical Specifications

Connector	LC/MM	LC/UPC	LC/APC
Colour of housing	beige	blue	green
Fiber	Multi-mode 50/125µm 62.5/125µm	Single-mode: 9/125µm	
Return loss	>20dB	>50dB	>60dB
Insertion loss	Max. Typical	0.5dB 0.2dB	
Ferrule: -Outer diameter -Hole diameter	1.25mm 127 ± 2µm	1.25mm 126 + 1µm	
Cable diameter (recommended)	Buffered Fibre:	0.9mm Simplex cable: 1.6...1.8mm Duplex cable: 2 x 1.6...1.8mm	
Tensile strength	Buffered Fibre:	5N Simplex cable: 100N Duplex cable: 100N	
Operating temperature range	-40 to +75°C (depends on cable type)		
Lifetime	1000 cycles		

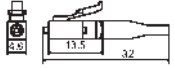
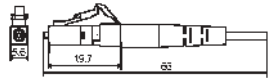

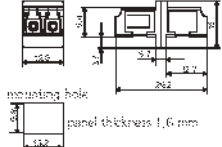


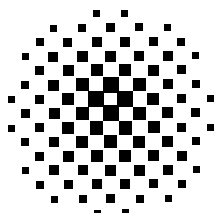
Connector kits for cables (ø1.6...1.8mm)



Connector kits for buffered fibres (ø0.9mm)

Material Information

	Name of part	Material	Flammability Class	Size
Kit for buffered fibre	Housing	PEI	UL 94,V-0	
	Ferrule with flange (installed in housing)	Ceramic+PBT		
	Spring (installed in housing)	stainless steel		
	Bend protection	TE (EPDM- x PP)	UL 94,V-0	
	Dust protection cover	PC	UL 94, V-0	
Kit for cable	Housing	PEI	UL94, V-0	<p>Simplex:</p>  <p>Duplex:</p> 
	Ferrule with flange (installed in housing)	Ceramic +PBT		
	Spring (installed in housing)	stainless steel		
	Bend protection	TE (EPDM-x +PP)	UL 94, V-0	
	Dust protection cover	PC	UL 94, V-0	
	Crimp sleeve	Aluminium	UL CSA Recognized	
	Heat shrinkable tube	Polyolefin		
Duplex through -adapter	Sleeves (installed in housing) LC/APC: Ceramic	LC/MM: Phos.-bronze LC/UPC: Ceramic		
	Dust protection cover	PC	UL 94, V-0	
	Duplex clip	PC	UL 94, V-0	



KRONE®

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