

Data Centre & Communications Room Fibre Connectors

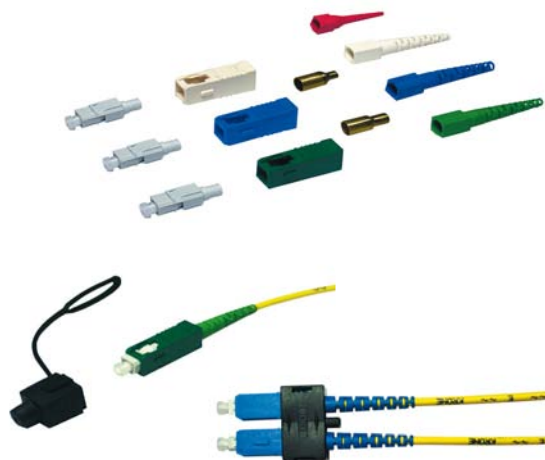


SC Connector	4.12
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SC Connector Family – for Singlemode and Multimode Fibres

The SC connector is a versatile, proven termination component for both simplex and duplex systems.

- Easy assembly, with few parts
- The dust protection cover attaches to the cable by a loop, assuring it will not get lost
- ADC KRONE's SC duplex clip enables two simplex connectors to be combined to form a duplex connector, even after the simplex connectors have been assembled (the clip is ordered separately)
- Both simplex and duplex patch cords only require one type of connector kit, reducing inventory and storage costs



Ordering Information

Description	Catalogue Number
SC Connector must be ordered in quantities divisible by 100 Singlemode, PC/UPC, blue housing Singlemode, APC8°/APC9°, green housing Multimode, beige housing	6824 1 002-00 6824 1 001-00 6824 1 003-00
SC Crimp Set must be ordered in quantities divisible by 100 3.0mm Cable Blue boot Green boot Beige boot Red boot Black boot 2.4mm Cable Blue boot Green boot Beige boot Red boot Black boot 2.0mm Cable Blue boot Green boot Beige boot Red boot Black boot 0.9mm Cable Blue boot Green boot Beige boot Red boot Black boot	6824 1 100-00 6824 1 100-01 6824 1 100-02 6824 1 100-03 6824 1 100-10 6824 1 101-00 6824 1 101-01 6824 1 101-02 6824 1 101-03 6824 1 101-10 6824 1 102-00 6824 1 102-01 6824 1 102-02 6824 1 102-03 6824 1 102-10 6824 1 103-00 6824 1 103-01 6824 1 103-02 6824 1 103-03 6824 1 103-10
Accessories SC Duplex Clip SC/LC Tuning Tool Dust Protection Cover must be ordered in quantities divisible by 100	6824 2 220-00 7048 1 050-00 6824 3 900-00

SC Connector Family – for Singlemode and Multimode Fibres

Specifications

	Singlemode UPC	Singlemode APC	Multimode
Standard: Mating Face Connector interface according to IEC 61754-4	•	•	•
Optical, Mechanical and Environmental Characteristics IEC 61753-2-1 IEC 61753-1-1 CECC 86265-802/806 CECC 86265-804/805 CECC 86265-801/803 TS 0161/96 (Deutsche Telekom AG) Telcordia GR-326-CORE	•	• • • ¹ • ² • ³ •	•
Attenuation Against reference connector, IEC 61300-3-4 Random mating, IEC 61300-3-34	Typical ≤ 0.12 dB Maximum ≤ 0.30 dB Typical ≤ 0.15 dB Maximum ≤ 0.35 dB	Typical ≤ 0.25dB Maximum ≤ 0.5 dB (95%)	
Ferrules Hole diameter Shape of ferrule face Mechanical and environmental stability Mating durability Cable retention Operating temperature range	126 µm predomed Minimum 1,000 cycles 100 N 40° to +85°C (can be limited by the cable)	125 µm conical, flat	126 µm predomed

¹ SC 8°APC untuned/tuned; ² SC 9°APC untuned/tuned; ³ SC 9°APC tuned

Note: Field termination of connectors is not covered under the TrueNet Warranty programme.

TrueNet® MT-RJ Connector Kits – for Singlemode and Multimode Fibres

The MT-RJ Fibre Optic connector was one of the first Small Form Factor (SFF) connectors released to the market place as an enabler of FTTH applications. It offers duplex presentation of fibre cores at the end face for transmit and receive channels, in an RJ45 footprint, removing the need for duplexing clips in traditional patch cords. Perfectly suited for multimode transmission data rates upto 1Gb/s, the MT-RJ can also be deployed in singlemode applications.



The MT-RJ connector kit is suited for the manufacture of fibre optic patch cords and pigtails in a factory environment.

Features

- Complete kit for connectorisation of buffered fibre (0.65mm) and fibre cable (1.6mm and 3.0mm)
- Kit volumes for OEM manufacturing
- Suitable for singlemode or multimode products.

Ordering Information

Description	Catalogue Number
Connector Kits (must be ordered in quantities divisible by 1000)	
MT-RJ multimode connector kit, female (without guide pins)	7023 1 043-00
MT-RJ singlemode connector kit, female (without guide pins)	7023 1 047-00
Guide Pins (must be ordered in quantities divisible by 1000)	
Guide pins for MT-RJ multimode connectors, male	7023 1 048-00
Guide pins for MT-RJ singlemode connectors, male	7023 1 049-00
Additional Accessories	
MT-RJ crimp tool	7057 1 400-01
MT-RJ boots for buffered fibres (0.65mm) (must be ordered in quantities divisible by 1000)	7023 3 043-00

Each connector kit includes:

- 1 connector housing (polycarbonate, RAL 7031, grey)
- 1 ferrule (polymer)
- 1 spring
- 1 spring holder
- 1 crimp sleeve (tin-plated copper: only for use with cables)
- 1 boot (elastomer) black, for cable from 1.6mm to 3.0mm
- 1 dust cover

NOTE: To assemble male connector types, guide pins are required and must be ordered separately. To assemble the connector kit to buffered fibre, we recommend the use of a boot for buffered fibres (ordered separately).

MT-RJ Connector Kits – for Singlemode and Multimode Fibres

Specifications

	MT-RJ Singlemode	MT-RJ Multimode
Standard: Mating face IEC 61754-18	•	•
Standard optical, mechanical and environmental characteristics EN 50377-9-1 IEN 50377-9-2 TIA/EIA 568-A and 568-B.3 EN 50173 ISO/IEC 11801 IEEE 802.5	• • • • •	• • • • •
Insertion loss Random mating (IEC 61300-3-34):	<ul style="list-style-type: none"> • maximum: 0.70dB • typical: 0.35dB 	<ul style="list-style-type: none"> • maximum: 0.50dB (95%) • typical: 0.35 dB
Mechanical and environmental stability Mating durability: Cable retention: Operating temperature range:	minimum: 500 cycles 50 N -40° to +75°C (dependent upon cable type)	

Note: Field termination of connectors is not covered under the TrueNet Warranty programme.

LC Connector Family

The LC connector represents a new generation in fibre optic termination technology. A small form-factor (SFF) connector, the LC connector features a ferrule diameter only half that of traditional connectors. This smaller size allows a much higher density to be achieved in both active and passive communication equipment.

The ADC KRONE LC connector combines the advantage of high connection density with ease of handling and quick installation.

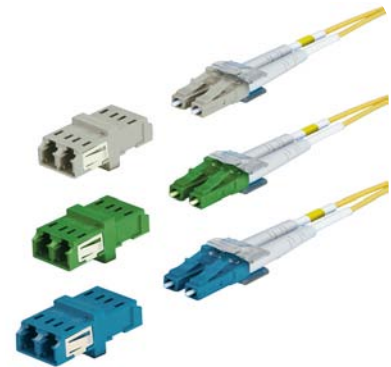
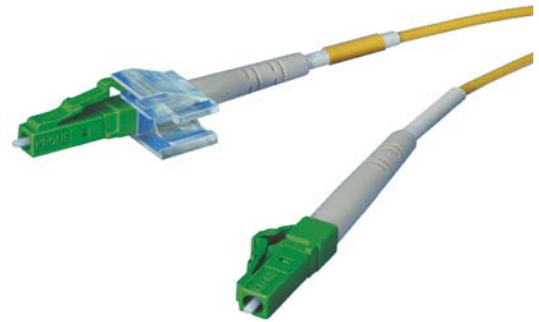
The connector is available in both simplex and duplex form. The duplex variant has the same dimensions as an SC simplex plug.

Features

- For industrial manufacture of singlemode and multimode cable assemblies
- Low number of components makes assembly easy
- Simple and quick polishing and assembly process
- Only one kit type is necessary for both simplex and duplex patch cords, which results in lower inventory costs
- ADC KRONE's LC duplex clip enables two simplex connectors to be put together to form one duplex connector, even after the simplex connectors have been assembled (the clip is ordered separately)
- The ferrule can be adjusted (or tuned)

Applications

LC connectors are used in telecommunication networks, Local Area Networks (LANs) and in-house cabling systems. They connect elements for transmission technology (in accordance with international standards) but are also increasingly used for patching and jumpering in distribution equipment.



LC/MM, LC/APC, LC/UFC



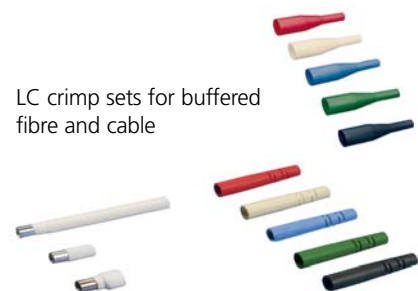
Size comparison LC duplex with SC simplex



Duplex clip



LC connector sets for buffered fibre and cable



LC crimp sets for buffered fibre and cable

LC Connector Family – for Singlemode and Multimode Fibres

Ordering Information

Description	Weight/Pack	Catalogue Number
LC Connector Kit (must be ordered in quantities divisible by 100)		
Singlemode, for 1.6 to 3.0mm cable		
PC/UPC, blue housing	0.082kg	7048 1 011-00
APC, green housing	0.082kg	7048 1 014-00
Singlemode, for buffered fibre (0.9mm)		
PC/UPC, blue housing	0.070kg	7048 1 013-00
APC, green housing	0.070kg	7048 1 016-00
Multimode, for 1.6 to 3.0mm cable, beige housing	0.082kg	7048 1 017-00
Multimode, for buffered fibre (0.9mm), beige housing	0.070kg	7048 1 018-00
LC Crimp Set (must be ordered in quantities divisible by 100)		
3.0mm cable		
Blue boot	0.067kg	7048 1 100-00
Green boot	0.067kg	7048 1 100-01
Beige boot	0.067kg	7048 1 100-02
Red boot	0.067kg	7048 1 100-03
Black boot	0.067kg	7048 1 100-10
2.4mm cable		
Blue boot	0.067kg	7048 1 101-00
Green boot	0.067kg	7048 1 101-01
Beige boot	0.067kg	7048 1 101-02
Red boot	0.067kg	7048 1 101-03
Black boot	0.067kg	7048 1 101-10
2.00mm cable		
Blue boot	0.067kg	7048 1 102-00
Green boot	0.067kg	7048 1 102-01
Beige boot	0.067kg	7048 1 102-02
Red boot	0.067kg	7048 1 102-03
Black boot	0.067kg	7048 1 102-10
0.9mm buffered fibre		
Blue boot	0.020kg	7048 1 103-00
Green boot	0.020kg	7048 1 103-01
Beige boot	0.020kg	7048 1 103-02
Red boot	0.020kg	7048 1 103-03
Black boot	0.020kg	7048 1 103-10
LC Multimode Connector & 0.9mm Buffered Fibre Crimp Set (beige) available in single units		7023 1 073-00
LC Duplex Clip (only delivered when connector kit is also ordered; must be ordered in quantities divisible by 50)		7048 2 050-00
Mounting Instructions (only delivered with higher quantities; a PDF version of the instructions is available on www.adckrone.com)		7048 3 045-00
LC Crimping Tool for cable kits		7048 1 051-00
SC/LC Tuning Tool For post-assembly adjustment of ferrule		7048 1 050-00
LC Offset Cord For adjustment of singlemode fibre core; fitted with FC APC connector on side for measurement equipment		7048 1 065-00
LC UPC Master Cord For measuring insertion and return loss; fitted with FC APC connector on side for measurement equipment		7048 1 052-00

Each connector kit includes:

1 connector housing of plastic, pre-assembled with ferrule (ceramic outer diameter: 1.25 mm) with flange (PBT), spring and dust cover

Each crimp set includes:

1 boot (for buffered fibre or cable)
1 crimp sleeve with heat-shrink tubing (only for cable)

LC Connector Family

Specifications

	Singlemode UPC	Singlemode	APC Multimode
LC/UPC LC/APC LC/MM Standards: Mating face IEC 61754-20 colour: blue green beige	•	•	•
Standards for optical, mechanical and environmental characteristics IEC 61753-2-1 IEC 61753-1-1 EN 50377-7-1 EN 50377-7-3 EN 50377-7-2/4 Telcordia GR-326-CORE	• • • •	• • •	• •
Insertion loss Against master connector (IEC 61300-3-4) Random mating (IEC 61300-3-34)	Typical $\leq 0.12\text{dB}$ Maximum $\leq 0.30\text{dB}$ Typical $\leq 0.15\text{dB}$ Maximum $\leq 0.35\text{dB}$		Typical $\leq 0.25\text{dB}$ Maximum $\leq 0.50\text{dB}$ (95%)
Ferrules Hole diameter Shape of ferrule tip Mechanical and environmental stability Mating durability: Cable retention: Operating temperature range:	126 μm Conical, flat Minimum 1,000 cycles 100 N -40° to +85°C (can be limited by cable)	126 μm Conical, flat	127 μm Conical, flat

Note: Field termination of connectors is not covered under the TrueNet Warranty programme.