



Fibre Optic Assembly Connectors



DATA SHEET

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Fibre Optic Assembly Connectors

Webb fibre optic connectors are the most efficient way to terminate fibre optic cables where quick connections and disconnections are required. The connectors mechanically couple and align the cores of fibres to ensure that the light emitting through the fibre optic cable is uninterrupted and seamless.

SC fibre optic connector specifications

- Available in single-mode and multi-mode
- Available in simplex or duplex types
- Available in cable diameter: 2.0mm, 3.0mm, or 0.9mm
- Available colours: SM/UPC – blue; SM/APC – green; MM/UPC – grey
- Insertion loss (typical): single-mode (UPC/APC): $\leq 0.2\text{dB}$; multi-mode (UPC): $\leq 0.2\text{dB}$
- Insertion loss (Maximum): single-mode (UPC/APC): $\leq 0.3\text{dB}$; multi-mode (UPC): $\leq 0.3\text{dB}$
- Return loss: single-mode UPC: $\geq 50\text{dB}$, APC: $\geq 60\text{dB}$; multi-mode UPC: $\geq 30\text{dB}$
- Operating wavelength: single-mode: 1310nm, 1550nm; multi-mode: 850nm, 1310nm
- Exchangeability: $\leq 0.2\text{dB}$
- Vibration: $\leq 0.2\text{dB}$
- Durability: >1000 times
- Operating temperature: -40°C to $+75^{\circ}\text{C}$

LC fibre optic connector specifications

- Available in single-mode and multi-mode
- Available in simplex or duplex types
- Available in cable diameter: 2.0mm, 3.0mm, or 0.9mm
- Available colours: SM/UPC – blue; SM/APC – green; MM/UPC - grey
- Insertion loss (typical): single-mode (UPC/APC): $\leq 0.2\text{dB}$; multi-mode (UPC): $\leq 0.2\text{dB}$
- Insertion loss (Maximum): single-mode (UPC/APC): $\leq 0.3\text{dB}$; multi-mode (UPC): $\leq 0.3\text{dB}$
- Return loss: single-mode UPC: $\geq 50\text{dB}$, APC: $\geq 60\text{dB}$; multi-mode UPC: $\geq 30\text{dB}$
- Operating wavelength: single-mode: 1310nm, 1550nm; multi-mode: 850nm, 1310nm
- Exchangeability: $\leq 0.2\text{dB}$
- Vibration: $\leq 0.2\text{dB}$
- Durability: >1000 times
- Operating temperature: -40°C to $+75^{\circ}\text{C}$

**Specifications are subject to change without notice based on technical recommendations and related product enhancements*

FC fibre optic connector specifications

- Available in single-mode and multi-mode
- Available in simplex or duplex types
- Available in cable diameter: 2.0mm, 3.0mm, or 0.9mm
- Available colours: SM/UPC – black; SM/APC – green; MM/UPC - black
- Insertion loss (typical): single-mode (UPC/APC): $\leq 0.2\text{dB}$; multi-mode (UPC): $\leq 0.2\text{dB}$
- Insertion loss (Maximum): single-mode (UPC/APC): $\leq 0.3\text{dB}$; multi-mode (UPC): $\leq 0.3\text{dB}$
- Return loss: single-mode UPC: $\geq 50\text{dB}$, APC: $\geq 60\text{dB}$; multi-mode UPC: $\geq 30\text{dB}$
- Operating wavelength: single-mode: 1310nm, 1550nm; multi-mode: 850nm, 1310nm
- Exchangeability: $\leq 0.2\text{dB}$
- Vibration: $\leq 0.2\text{dB}$
- Durability: >1000 times
- Operating temperature: -40°C to $+75^{\circ}\text{C}$

ST fibre optic connector specifications

- Available in single-mode and multi-mode
- Available in simplex or duplex types
- Available in cable diameter: 2.0mm, 3.0mm, or 0.9mm
- Available colours: SM/UPC – black; MM/UPC – yellow
- Insertion loss (typical): single-mode (UPC): $\leq 0.2\text{dB}$; multi-mode (UPC): $\leq 0.2\text{dB}$
- Insertion loss (Maximum): single-mode (UPC): $\leq 0.3\text{dB}$; multi-mode (UPC): $\leq 0.3\text{dB}$
- Return loss: single-mode UPC: $\geq 50\text{dB}$; multi-mode UPC: $\geq 30\text{dB}$
- Operating wavelength: single-mode: 1310nm, 1550nm; multi-mode: 850nm, 1310nm
- Exchangeability: $\leq 0.2\text{dB}$
- Vibration: $\leq 0.2\text{dB}$
- Durability: >1000 times
- Operating temperature: -40°C to $+75^{\circ}\text{C}$

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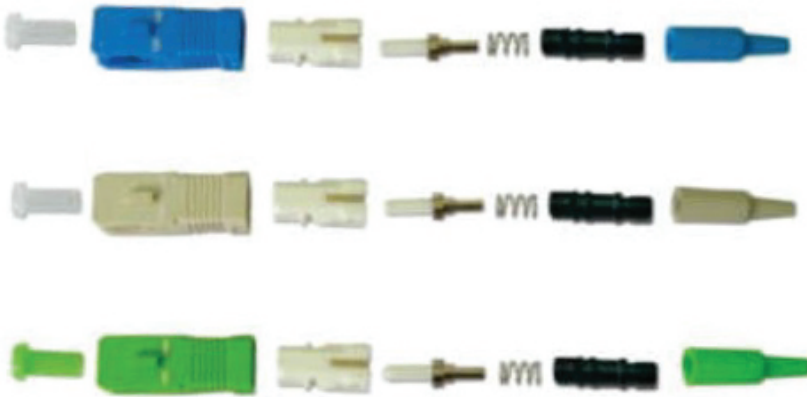
SC connector



SC 2.0mm or 3.0mm



SC UPC MM SX 3.0mm

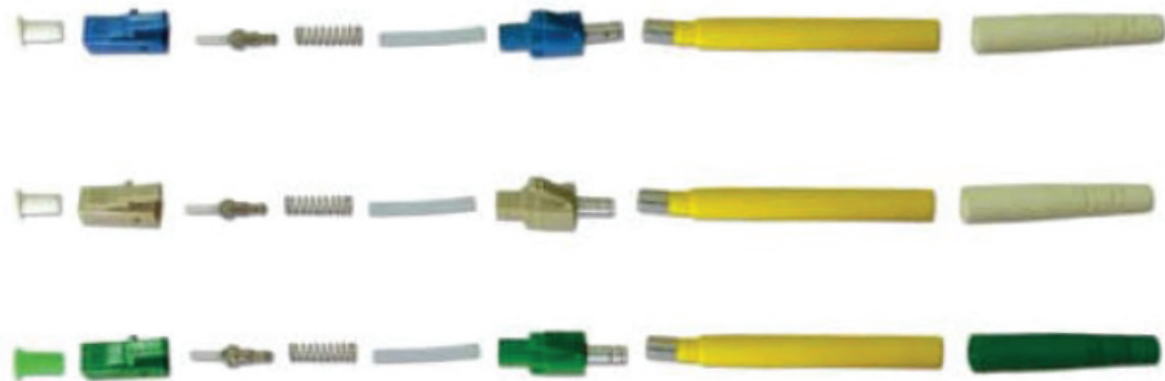


SC 0.9mm



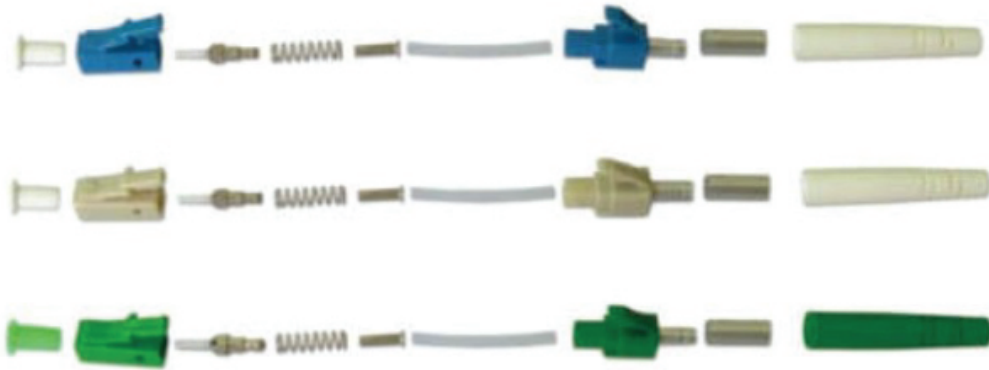
SC UPC SM DX 3.0mm

LC connector



LC 2.0mm

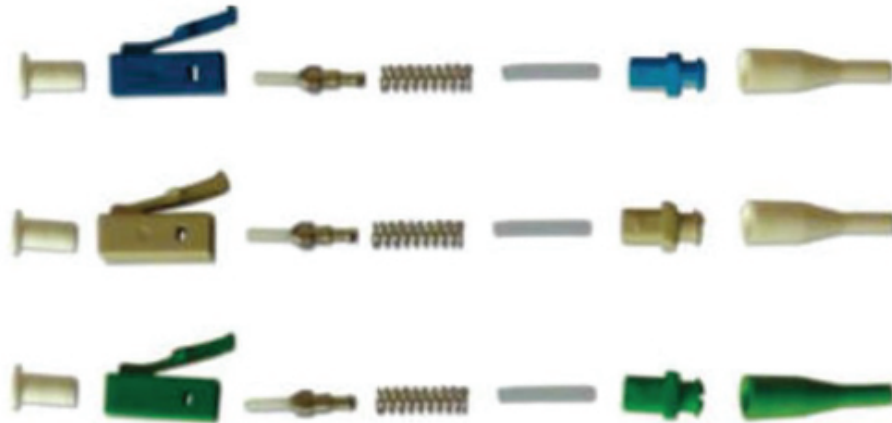
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LC 3.0mm



LC UPC SM SX 0.9mm

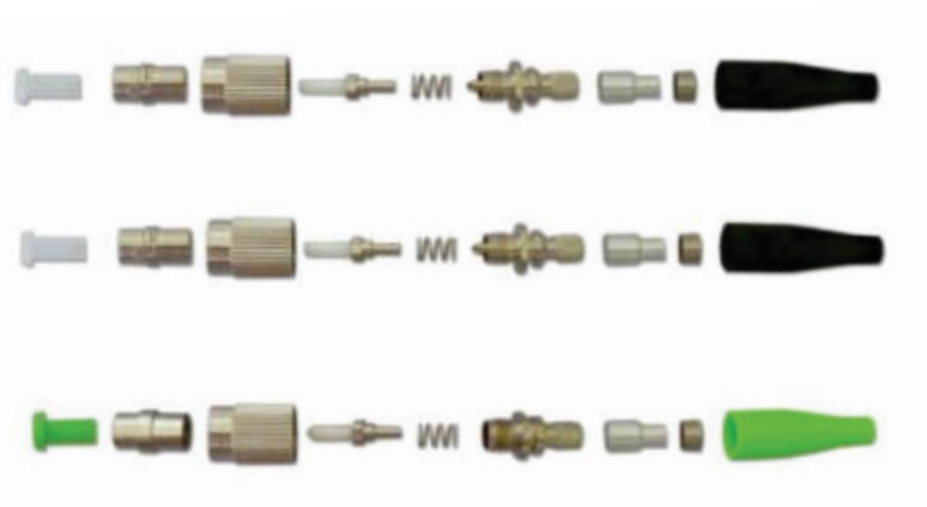


LC 0.9mm



LC UPC SM DX 3.0mm

FC connector

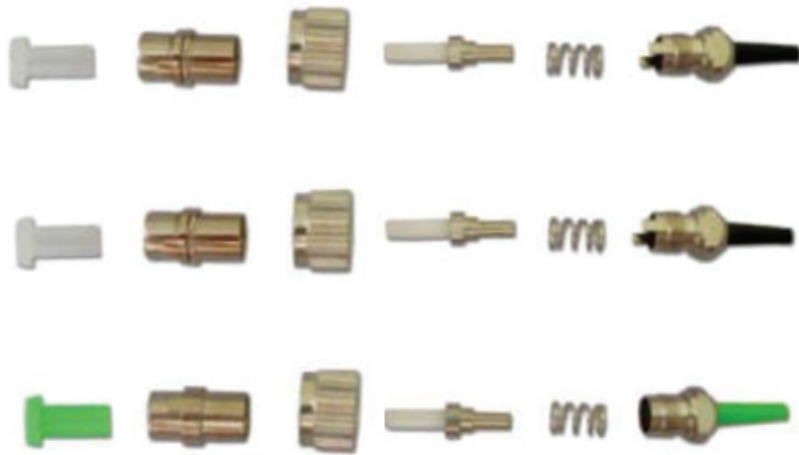


FC 2.0mm or 3.0mm



FC APC SM SX 3.0mm

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FC 0.9mm



FC UPC SM SX 3mm

ST connector



ST 2.0mm or 3.0mm



ST UPC MM SX 3.0mm



ST 0.9mm



ST UPC SM SX 3.0mm

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FIBRE OPTIC ASSEMBLY CONNECTORS PART NUMBER KEY

Part Number: C.05.AC.... ..

C.05.AC.Mode.Connector.Angle.Type.Cable thickness.Color

Please add the codes from the tables below in the above format to derive at your desired product part number

Mode	Code
Single Mode (OS1) (9/125)	S1
Single Mode (OS2) (9/125)	S2
Multi Mode (OM1) (62.5/125)	M1
Multi Mode (OM2) (50/125)	M2
Multi Mode (OM3) (50/125)	M3
Multi Mode (OM4) (50/125)	M4

Angle	Code
UPC	U
APC	A

Type	Code
Simplex	SX
Duplex	DX

Color	Code
Blue	BL
Green	GR
Beige	BE
Aqua	AQ
Yellow	YL
Black	BK

Connector	Code
FC	FC
SC	SC
ST	ST
LC	LC

Cable thickness in mm	Code
0.9	9
2	2
3	3

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