

# 100-02 Series Fibre Optic Connectors



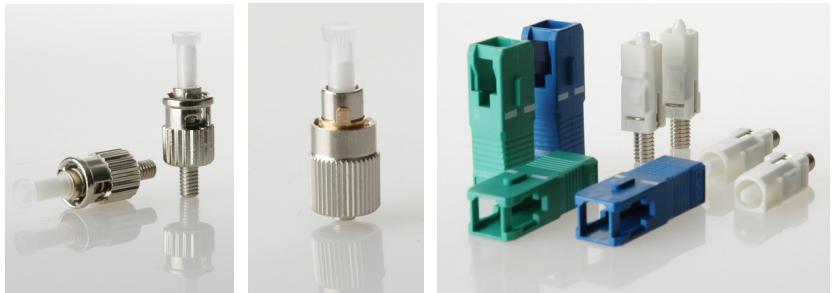
A secure link starts with the selection and specification of a reliable, high performance connector. Ridgemount Technologies has over 20 years of experience designing and manufacturing fibre optic connectors for many different applications.

The Ridgemount series of fibre optic connectors have been designed for use in the manufacture of high performance fibre optic cable assemblies. The connectors all conform to industry interface standards [IEC] and use premium ferrules with UL94 V0 rated materials.



## Applications

- Industrial Transport Control
- Security & Surveillance Systems
- CATV & Broadcast Systems
- Base Station Interconnection
- Storage and Data Centres



## Features

- Conform to IEC interface standards
- All connectors are RoHS compliant
- FC, SC and ST Interfaces
- Singlemode PC and APC ferrule options
- High Concentricity - Low Loss

## Benefits


- Guaranteed Inter-matability with other manufacturers
- Tested for demanding environments
- Common Crimp action for secure cable retention
- Bulk packing solutions for high volume lines



## Technical Specification

Options	FC [IEC 61754-13]	SC [IEC 61754-4]	ST [IEC 61754-2]
Mechanical Latching	Thread [Pull Proof]	Push-Pull [Pull Proof]	Bayonet
Applications	Telecom – Equipment	Telecom / Datacom	Datacom
Standards	GR326 Compliant	GR326 Compliant	NA
Zirconia Ferrule	2.5mm PC or APCccone	2.5mm PC or APCccone	2.5mm PC or APCccone
Ferrule Size	ID 126µm C = 1.0µm	ID 126µm C = 1.0µm	ID 126µm C = 1.0µm
Concentricity	ID 125.5µm C <0.5µm	ID 125.5µm C <0.5µm	ID 125.5µm C <0.5µm
Multipart	0.9mm [L 32mm]		
One Piece	0.9mm/ 2mm / 3mm	0.9mm/ 2mm / 3mm	0.9mm/ 2mm / 3mm
Length [incl. boot]	54mm [0.9mm = 37mm]	54mm [0.9mm = 37mm]	54mm [0.9mm = 37mm]
Typical Insertion Loss	≤0.2dB [Low Loss ≤0.1dB]	≤0.2dB [Low Loss ≤0.1dB]	≤0.2dB
Typical Return Loss	PC≥55dB APC≥65dB	PC≥55dB APC≥65dB	PC≥55dB APC≥65dB
Repeatability	≤0.2dB	≤0.2dB	≤0.2dB
Operating Temperature	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
Durability [mating]	>500 [<0.2dB change]	>500 [<0.2dB change]	>500 [<0.2dB change]
Cable Retention	90N	90N	90N

## Ordering Information

	<b>101-01 Series Standard Connectors Part Number Schema</b>						Issued by: ENG
							Date: 20/06/2022
							Rev: A
							Page: 1 of 1
<b>Family</b> 100 : Brand Connector 101 : <b>Ridgemount 1 Piece</b> 102 : Ridgemount Multi Part 103 : Ridgemount 1 Piece – Fixed Key	10x	X	X	X	X	1X	
<b>Connector Interface</b> 1 : FC 2 : SC 3 : ST							
<b>Ferrule Type</b> 1 : Singlemode 125.5 PC 3 : <b>Singlemode 126 PC</b> 4 : Multimode 128 PC 5 : Singlemode 126 APC conical 6 : Singlemode 125.5 PC – 0.5µm – Low Loss 7 : Singlemode 125.5 APC conical–0.5µm–Low Loss 8 : Singlemode 125.5 APC conical–1.0µm							
<b>Construction</b> 1 : Multi-part connector 2 : <b>One Piece Connector</b> 3 : Duplex							
<b>Cable Diameter</b> 1 : 0.9mm 4 : <b>2.0mm</b> 6 : 3.0mm							
<b>Ferrule Material</b> 1 : Ceramic							
<b>Body-Boot Colour</b> B 0 : White    B 3 : Blue B 1 : Green    B 9 : Black B 2 : Red							

**Ordering Example: 101023241B1 = SM PC Connector for 2.0mm cable**