



FIS has the cable assemblies in a variety of fiber, connector and jacket size combinations that meet customer application requirements. Optical fiber is manufactured by Corning for both singlemode and multimode cable assemblies. Jacket size ranges from 3.0mm, 2.0mm, 1.6mm or 1.2mm in Riser, Plenum or Low Smoke Zero Halogen rating. Cable assemblies can be simplex ( 1 fiber) or duplex (2 fiber). Custom length and jacket colors are available. Singlemode cable assemblies have either Ultra Polish (UPC) or Angle Polish (APC) finish applied to zirconia ferrule. Performance of OM3, OM4 and OM5 cable assemblies meet industry standards for 100Gb/s transmission. Singlemode cable assemblies exceed G.657.A1 ITU-T standard with bend radius of 10mm. Patch Cable compliant with ANSI/TIA568.3-D.

## SPECIFICATIONS

### Singlemode APC Cords

Connector Styles	LC-LC, SC-SC, FC-FC, SC-FC
Patchcord Lengths	1,2,3,5,10 meters
Length Tolerance	-0 +3 inch
Insertion Loss (Per Mated Pair)	0.15dB (typical), 0.3dB (max)
Back Reflection	≤ -65dB
Operating Temperature	-10 to +60°C +4 to +140°F

### Singlemode UPC Cords

Connector Styles	ST-ST, SC-SC, ST-SC, FC-FC, SC-FC, LC-LC, LC-SC
Patchcord Lengths	1,2,3,5,10 meters
Length Tolerance	-0 +3 inch
Insertion Loss (Per Mated Pair)	0.15dB (typical), 0.3dB (max)
Back Reflection	≤ -55dB
Operating Temperature	-10 to +60°C +4 to +140°F

### Multimode PC 62.5/125µm OM1 / 50µm OM2 Cords

Connector Styles	LC-LC, ST-ST, SC-SC, FC-FC, SC-FC
Patchcord Lengths	1,2,3,5,10 meters
Length Tolerance	-0 +3 inch
Insertion Loss (Per Mated Pair)	0.35dB (typical)
Operating Temperature	-10 to +60°C +4 to +140°F

### Multimode PC 50/125µm OM3/OM4 Cords

Connector Styles	LC-LC, ST-ST, SC-SC, FC-FC, SC-FC
Patchcord Lengths	1,2,3,5,10 meters
Length Tolerance	-0 +3 inch
Insertion Loss (Per Mated Pair)	0.35dB (typical)
Operating Temperature	-10 to +60°C +4 to +140°F

All 3mm jacketed patch cables have outer jacket with 900µm buffered fiber surrounded by aramid yarn. Cable size of 1.6mm has outer jacket with 650µm buffered fiber surrounded by aramid yarn. Cable size of 1.2mm has an outer jacket with 250µm acrylate coating surrounded by aramid yarn.

All singlemode cables are made with Corning SMF-28 ULTRA optical bend-insensitive fiber, all multimode cables are made with Corning Inifcor OM1 or Clearcurve OM2, OM3 or OM4 bend insensitive optical fibers.

Contact FIS sales associate for custom cable assemblies, alternative lengths, connectors, jacket colors or unique specification requirements.