molex®

Fibre Optic Cable Assemblies Duplex SC and ST Connectors, MultiMode

Features and Benefits

Molex Premise Networks fibre optic cable assemblies are composed using two part numbering schedules. The more common Multimode Duplex SC and ST assemblies are ordered using the FPC-ABCDE-FG schedule, all others at this point continue to use 91.XX.XXX.XXXXX.

- All patchleads are constructed from duplex zip cord cable.
- ST® Assemblies are constructed with metal nut, plastic body and zirconia ferrule connectors.
- Duplex SC Assemblies are constructed from plastic body, plastic housing and zirconia ferrule connectors.
- Jacket material is LSZH, complying with IEC 60332.1 and IEC 60332.3C
- All pigtails are constructed from secondary-coated bare fibre.
- Patchlead and pigtail jacket and coating colours:
  - 62.5/125   OM1 Orange
  - 50/125   OM2 Grey
  - 50/125   OM3 Blue

Technical Information

Insertion Loss ≤ 0.35 dB

Fibre Bandwidths (@850nm and 1300nm) under over-filled launch conditions:-

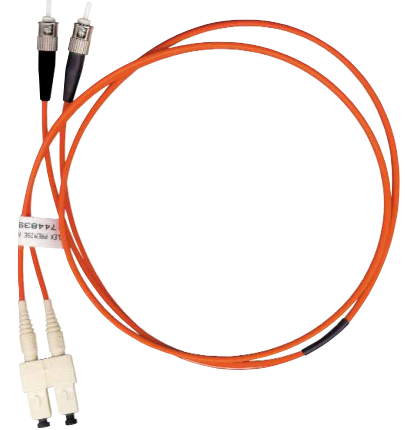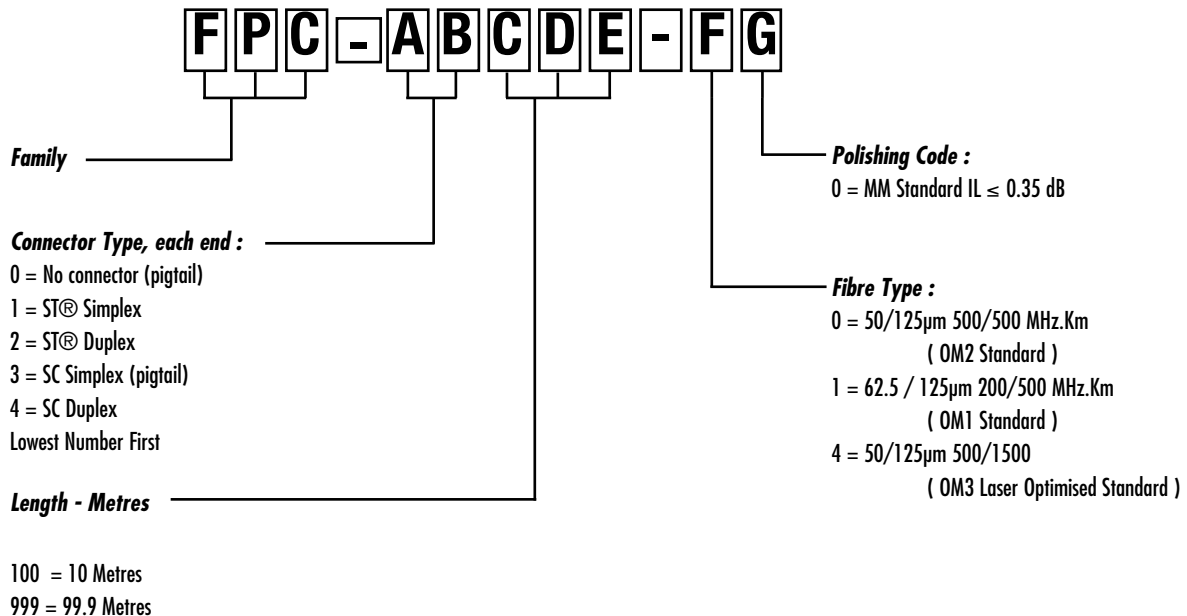|	
50/125µm:	500/500 MHz.Km (OM2 Standard)
62.5 / 125µm:	200/500 MHz.Km (OM1 Standard)
50/125µm:	1500/500 MHz.Km (OM3 Standard)
Attenuation values:	≤ 3.5 dB/Km@850nm
	≤ 1.5 dB/Km@1300nm

Connector endfaces inspected and certified to BS:7718 Annex A Section A7

Nominal Jacket Thickness: 0.55 mm

ORDERING INFORMATION

For ST and SC Duplex Multimode Assemblies use this table. For all other, use the table on page 2.

FPC - ABCDE - FG

Family

Connector Type, each end :
0 = No connector (pigtail)
1 = ST® Simplex
2 = ST® Duplex
3 = SC Simplex (pigtail)
4 = SC Duplex
Lowest Number First

Length - Metres

100 = 10 Metres
999 = 99.9 Metres

Polishing Code :
0 = MM Standard IL ≤ 0.35 dB

Fibre Type :
0 = 50/125µm 500/500 MHz.Km
      (OM2 Standard)
1 = 62.5 / 125µm 200/500 MHz.Km
      (OM1 Standard)
4 = 50/125µm 500/1500
      (OM3 Laser Optimised Standard)

For example :
To order a 1 metre Duplex LSZH 62.5/125 ST® to Duplex SC Patch Cord, the part number would be. FPC-24010-10

MOLEX PREMISE NETWORKS
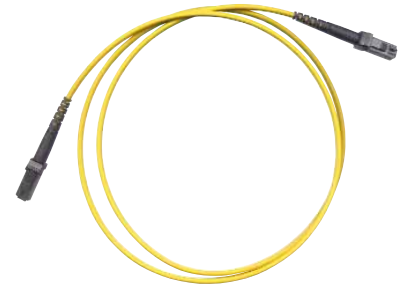
Features and Benefits

Molex Premise Networks offers a comprehensive range of Fibre Optic Cable assemblies for both Multimode and Singlemode applications. Low Smoke Zero Halogen Cable (LSZH) is used for all standard fibre cable assemblies.
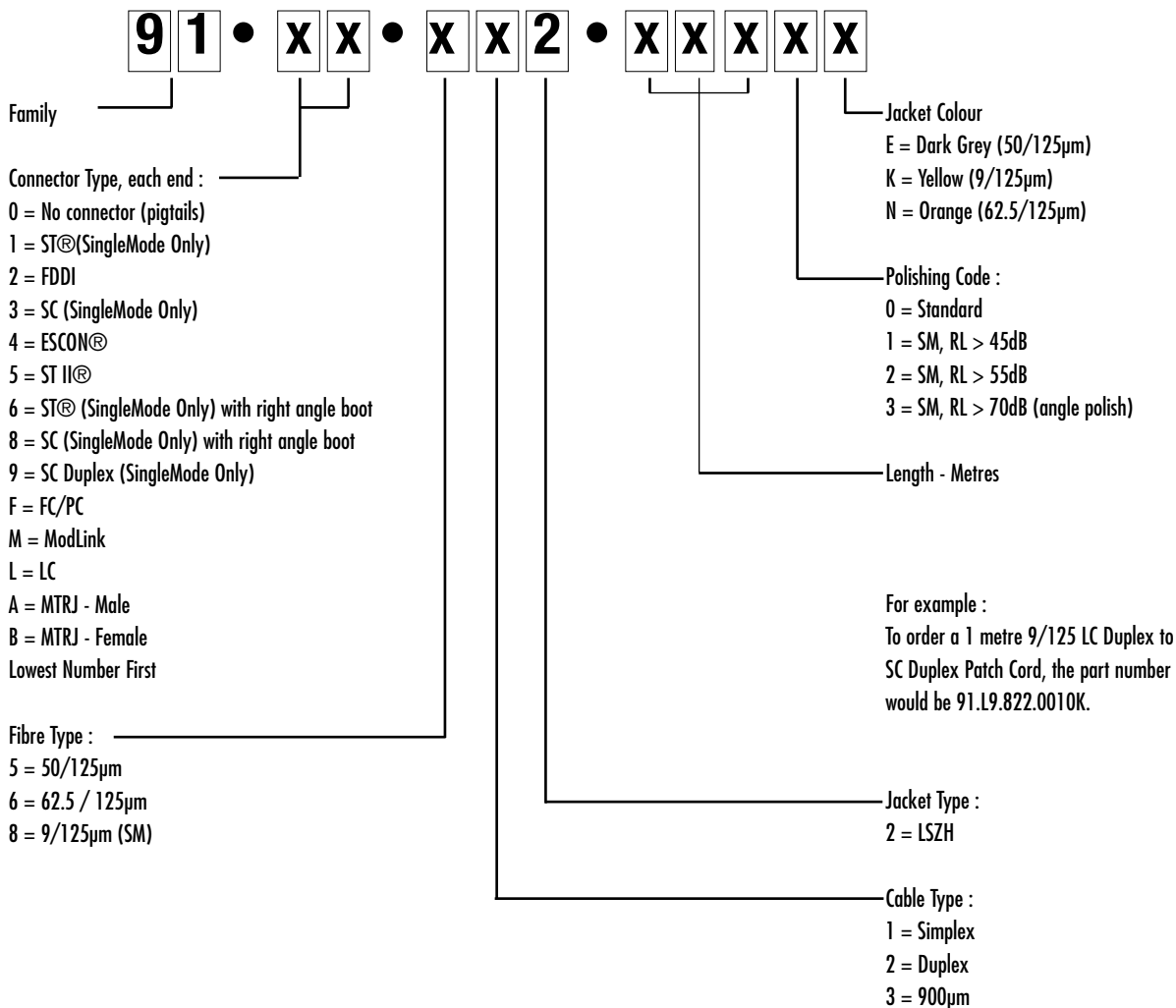
Special part numbers can be created using the table below.

- Standard or custom assemblies
- Precision ferrule endface geometry
- Multimode and singlemode
- Controlled fibre protrusion
- Factory polished, tested and serialized.
- Insertion Loss <0.35dB per connector

ORDERING INFORMATION

For ST and SC Duplex Multimode Assemblies use the table on page 1. For all other assemblies, use this table.

9 1 • x x • x x 2 • x x x x x x

Family

Connector Type, each end :

- 0 = No connector (pigtails)
- 1 = ST®(SingleMode Only)
- 2 = FDDI
- 3 = SC (SingleMode Only)
- 4 = ESCON®
- 5 = ST II®
- 6 = ST® (SingleMode Only) with right angle boot
- 8 = SC (SingleMode Only) with right angle boot
- 9 = SC Duplex (SingleMode Only)
- F = FC/PC
- M = ModLink
- L = LC
- A = MTRJ - Male
- B = MTRJ - Female
- Lowest Number First

Fibre Type :

- 5 = 50/125µm
- 6 = 62.5 / 125µm
- 8 = 9/125µm (SM)

Jacket Colour
- E = Dark Grey (50/125µm)
- K = Yellow (9/125µm)
- N = Orange (62.5/125µm)

Polishing Code :
- 0 = Standard
- 1 = SM, RL > 45dB
- 2 = SM, RL > 55dB
- 3 = SM, RL > 70dB (angle polish)

Length - Metres

For example :
To order a 1 metre 9/125 LC Duplex to SC Duplex Patch Cord, the part number would be 91.L9.822.0010K.

Jacket Type :
- 2 = LSZH

Cable Type :
- 1 = Simplex
- 2 = Duplex
- 3 = 900µm

MOLEX PREMISE NETWORKS