

FİBER OPTİK CATALOG



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İÇİNDEKİLER

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PIGTAILS

A fiber pigtail is a single, short, usually tight-buffered, optical fiber that has an optical connector pre-installed on one end and a length of exposed fiber at the other end.

The end of the pigtail is stripped and fusion spliced to a single fiber of a multi-fiber trunk. Splicing of pigtails to each fiber in the trunk "breaks out" the multi-fiber cable into its component fibers for connection to the end equipment.

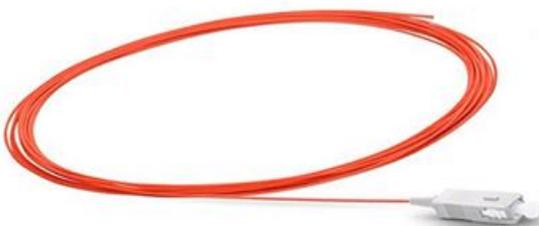
Pigtails can have female or male connectors. Female connectors could be mounted in a patch panel, often in pairs although single-fiber solutions exist, to allow them to be connected to endpoints or other fiber runs with patch fibers. Alternatively they can have male connectors and plug directly into an optical transceiver.



SC/UPC SINGLEMODE



SC/UPC MULTIMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM G657A1, SM G657A2, SM G657B3, MM OM1, MM, OM2, MM OM3, MM OM4
- Available as tight-buffer, semi-tight buffer or easy strip/loose tube
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length
- Available in 6 or 12 color bundles
- Several boots (colors and length) and dust cap (color, shape)

OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB

LC/UPC SINGLEMODE



LC/UPC MULTIMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM G657A1, SM G657A2, SM G657B3, MM OM1, MM, OM2, MM OM3, MM OM4
- Available as tight-buffer, semi-tight buffer or easy strip/loose tube
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length
- Available in 6 or 12 color bundles
- Several boots (colors and length) and dust cap (color, shape)

OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB

FC/UPC SINGLEMODE



FC/UPC MULTIMODE



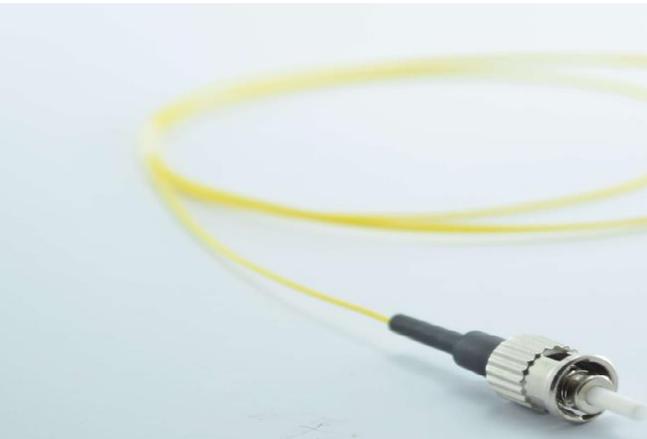
MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM G657A1, SM G657A2, SM G657B3, MM OM1, MM, OM2, MM OM3, MM OM4
- Available as tight-buffer, semi-tight buffer or easy strip/loose tube
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length
- Available in 6 or 12 color bundles
- Several boots (colors and length) and dust cap (color, shape)

OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB

ST/APC SINGLEMODE



ST/APC MULTIMODE



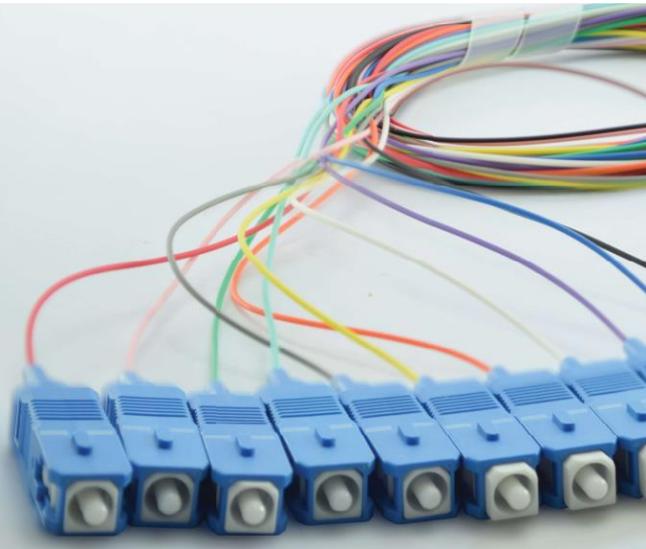
MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM G657A1, SM G657A2, SM G657B3, MM OM1, MM, OM2, MM OM3, MM OM4
- Available as tight-buffer, semi-tight buffer or easy strip/loose tube
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length
- Available in 6 or 12 color bundles
- Several boots (colors and length) and dust cap (color, shape)

OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB

MULTI-COLOUR PIGTAILS



OUTDOOR PIGTAILS



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM G657A1, SM G657A2, SM G657B3, MM OM1, MM, OM2, MM OM3, MM OM4
- Available as tight-buffer, semi-tight buffer or easy strip/loose tube
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length
- Available in 6 or 12 color bundles
- Several boots (colors and length) and dust cap (color, shape)

OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB

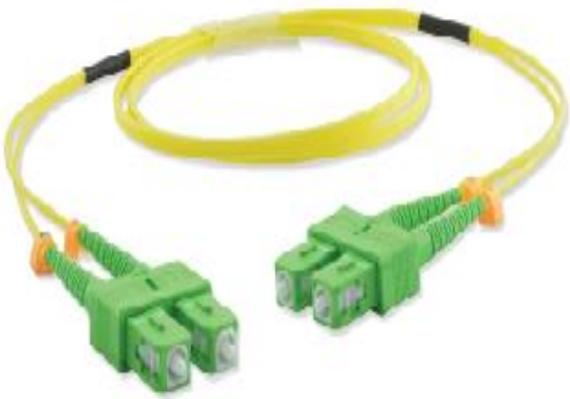
PATCHCORDS

A fiber optic patch cord is a fiber optic cable capped at either end with connectors that allow it to be rapidly and conveniently connected to CATV, an optical switch or other telecommunication equipment. Its thick layer of protection is used to connect the optical transmitter, receiver, and the terminal box. This is known as "interconnect-style cabling".

A fiber optic patch cord is constructed from a core with a high refractive index, surrounded by a coating with a low refractive index, that is strengthened by aramid yarns and surrounded by a protective jacket. Transparency of the core permits transmission of optic signals with little loss over great distances. The coating's low refractive index reflects light back into the core, minimizing signal loss. The protective aramid yarns and outer jacket minimizes physical damage to the core and coating.



SC/UPC SINGLEMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM, G657A1, SM G657A2, SM, G657B3, MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

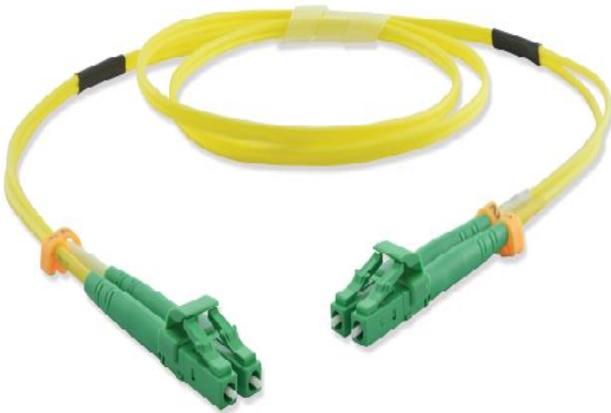
SC/UPC MULTIMODE



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB
- Several boots (colors and length) and dust cap (color, shape), see accessories section

LC/UPC SINGLEMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM, G657A1, SM G657A2, SM, G657B3, MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

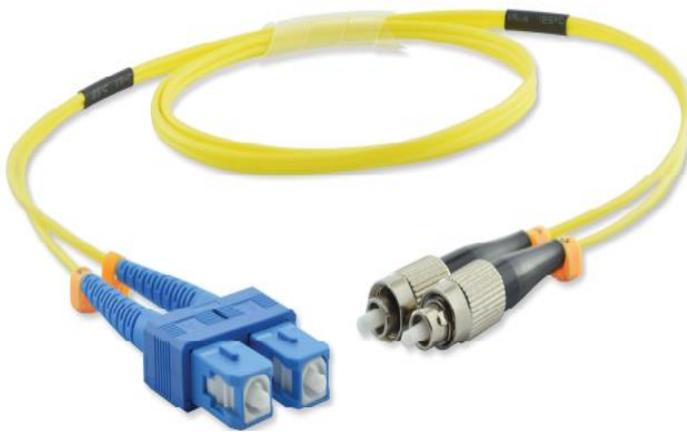
LC/UPC MULTIMODE



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB
- Several boots (colors and length) and dust cap (color, shape), see accessories section

FC/UPC SINGLEMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM, G657A1, SM G657A2, SM, G657B3, MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

FC/UPC MULTIMODE



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB
- Several boots (colors and length) and dust cap (color, shape), see accessories section

ST/UPC SINGLEMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SMG655, SM, G657A1, SM G657A2, SM, G657B3, MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

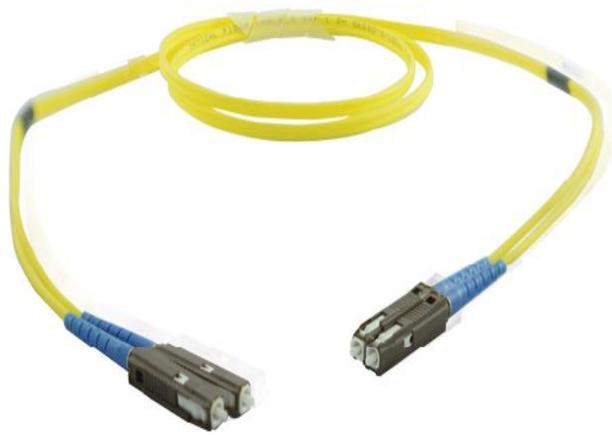
ST/UPC MULTIMODE



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB
- Several boots (colors and length) and dust cap (color, shape), see accessories section

MU/UPC SINGLEMODE



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SM G655, SM, G657A1, SM G657A2, SM, G657B3, MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

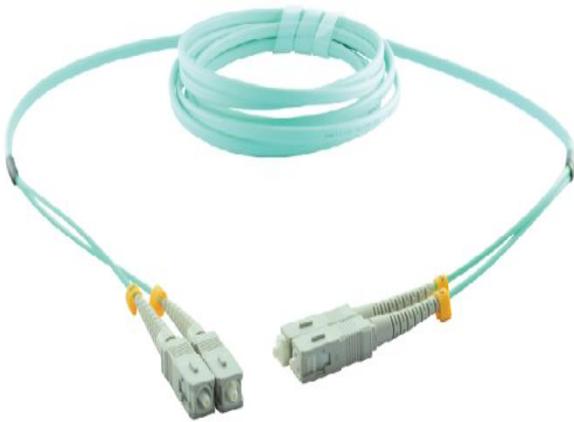
MTRJ



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB
- Several boots (colors and length) and dust cap (color, shape), see accessories section

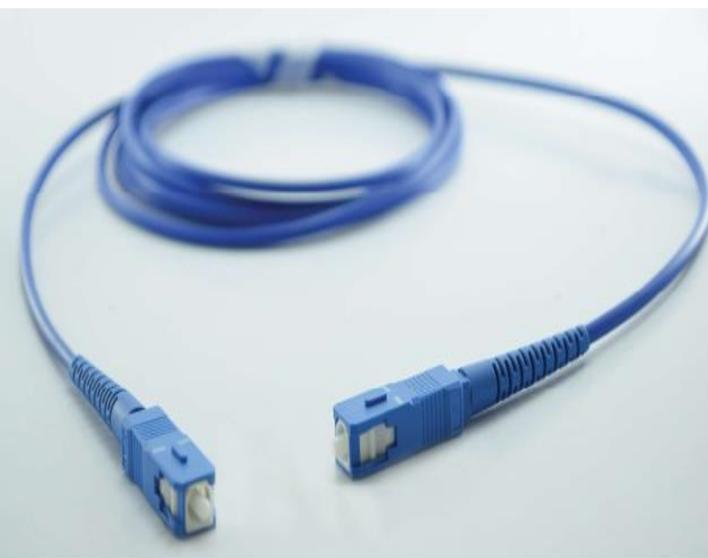
FLAT TWIN



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SMG655, SM, G657A1, SM G657A2, SM ,G657B3,MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

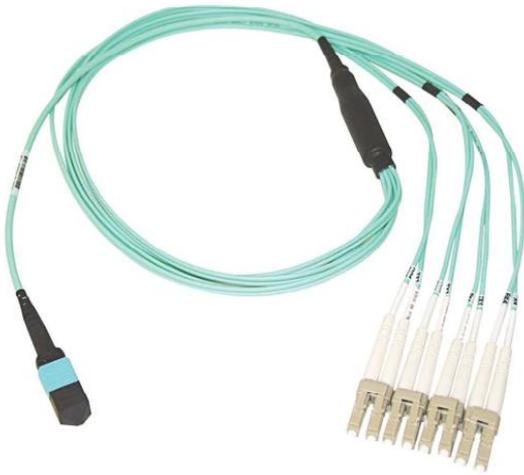
ARMOURED



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM<=0.20dB ,
MM <=0.30dB
- Typical Insertion Loss :
SM<=0.15dB ,
MM<=0.30dB
- Return Loss:
SM (UPC) >=55.0dB, (APC) >=60.0dB,
MM>=35.0dB
- Several boots (colors and length) and dust cap (color,shape), see accessories section

MPO



MAIN FEATURES

- Available with any type of connector: SC, LC, ST, FC, MTRJ, MU
- Polishing types: UPC and APC
- Any type of fiber: SM G652D, SMG655, SM, G657A1, SM G657A2, SM ,G657B3,MM OM1, MM OM2, MM OM3, MM OM4
- Cable outer diameter (O.D.): 0.9mm, 2.0mm & 3.0mm (simplex or duplex zipcord), customized O.D. available
- Jacket available in LSZH (Low Smoke Zero Halogen), LSZH-FH (Flame Retardant UL94 V-0), PE or PVC Riser/Plenum (flame-retardant PVC)
- Any length

FC/APC SINGLEMODE



OPTICAL PROPERTIES

- Maximum Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Typical Insertion Loss :
SM ≤ 0.15 dB ,
MM ≤ 0.30 dB
- Return Loss:
SM (UPC) ≥ 55.0 dB, (APC) ≥ 60.0 dB,
MM ≥ 35.0 dB
- Several boots (colors and length) and dust cap (color,shape), see accessories section

CONNECTORS

An optical fiber connector terminates the end of an optical fiber, and enables quicker connection and disconnection than splicing. The connectors mechanically couple and align the cores of fibers so light can pass. Better connectors lose very little light due to reflection or misalignment of the fibers. In all, about 100 different types of fiber optic connectors have been introduced to the market.

A variety of optical fiber connectors are available, but SC and LC connectors are the most common types of connectors on the market.[citation needed] Typical connectors are rated for 500–1,000 mating cycles. The main differences among types of connectors are dimensions and methods of mechanical coupling. Generally, organizations will standardize on one kind of connector, depending on what equipment they commonly use.

In many data center applications, small (e.g., LC) and multi-fiber (e.g., MTP/MPO) connectors are replacing larger, older styles (e.g., SC), allowing more fiber ports per unit of rack space and higher data rate application such as 40-Gigabit Ethernet and 100-Gigabit Ethernet.



SC/APC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

SC/UPC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

FC/APC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: $< 0.8\mu\text{m}$ (SM) and $< 4.0\text{mm}$ (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

FC/UPC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: $< 0.8\mu\text{m}$ (SM) and $< 4.0\text{mm}$ (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

ST/APC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

ST/UPC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

LC/APC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

LC/UPC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

MTRJ/UPC



MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm
- Several boots (colors and length)

MU/UPC

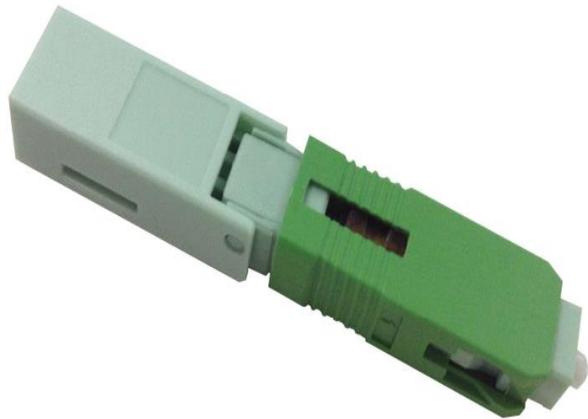


MAIN FEATURES

- Available types of connector: SC, LC, ST, FC, MTRJ, MU
- Concentricity: < 0.8um (SM) and <4.0mm (MM), ferrules checked and assembled
- With 2.5 mm high-precision ceramic ferrule (SC, ST, FC) or 1.25 mm (LC)
- Polishing types: UPC and APC (SC, LC, FC)
- Duplex or simplex (SC, LC)
- For cables O.D. In the range 0.9-3.0mm

- Several boots (colors and length)

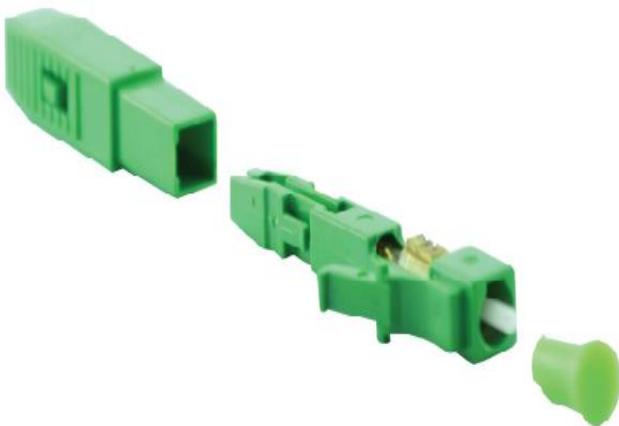
SC/APC & SC/UPC



MAIN FEATURES

- Available types of connector: SC, LC, FC
- No epoxy and no polishing required, pre polished in UPC and APC
- For pigtail cable patchcord cable and drop cable up to 8.0mm diameter
- Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Return Loss :
SM (UPC) ≥ 55.0 dB, (APC) ≥ 0.60 dB,
MM ≥ 35.0 dB

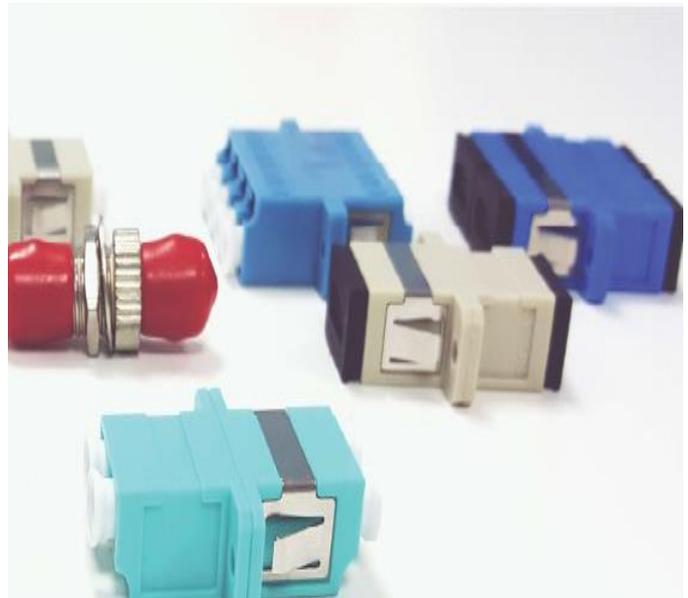
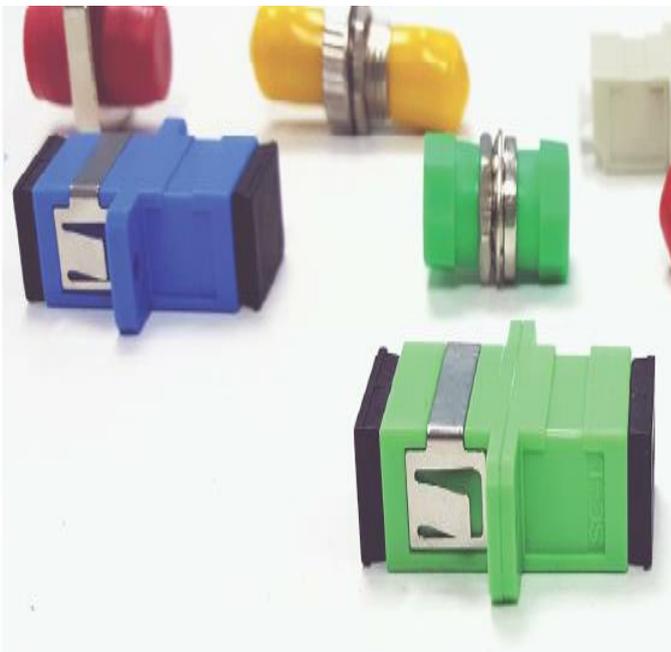
LC/APC & LC/UPC



MAIN FEATURES

- Available types of connector: SC, LC, FC
- No epoxy and no polishing required, pre polished in UPC and APC
- For pigtail cable patchcord cable and drop cable up to 8.0mm diameter
- Insertion Loss :
SM ≤ 0.20 dB ,
MM ≤ 0.30 dB
- Return Loss :

SM (UPC) $\geq 55.0\text{dB}$, (APC) $\geq 0.60\text{dB}$,
MM $\geq 35.0\text{dB}$



ADAPTERS

A fiber optic adapter connects two fiber optic connectors in the fiber optic lines.

Bare fiber adapter is used as the medium to temporarily link the bare optical fiber to fiber optic

equipment. Available with
FC, SC, ST. LC, MU, SMA
connectors with round or
square type press button.

SC/APC SX**SC/APC DX**

MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

LC/APC SX**LC/UPC DX**

MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

SC/UPC SX



SC OM3 SX



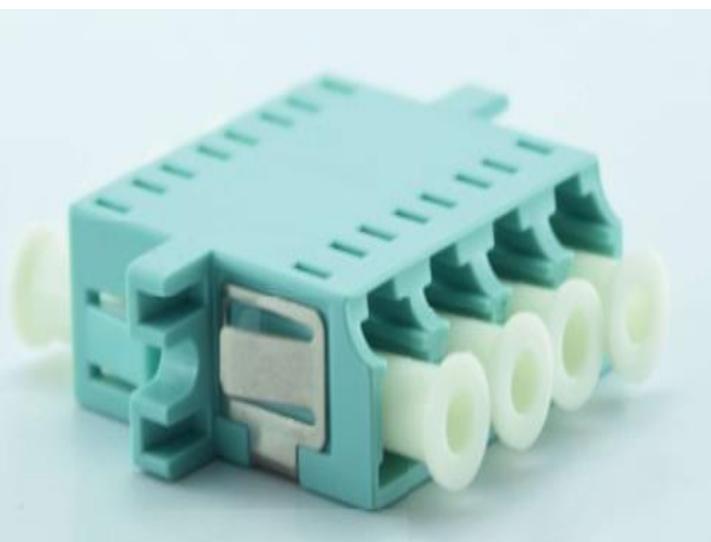
MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

LC/UPC OM3 DX



LC/UPC OM3 QUAD



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

FC/APC SX



FC/UPC SX



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símples, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

ST/UPC MM SX



ST/UPC SM SX



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

MPO/UPC-MPO/UPC SM



MU/UPC-MU/UPC SM



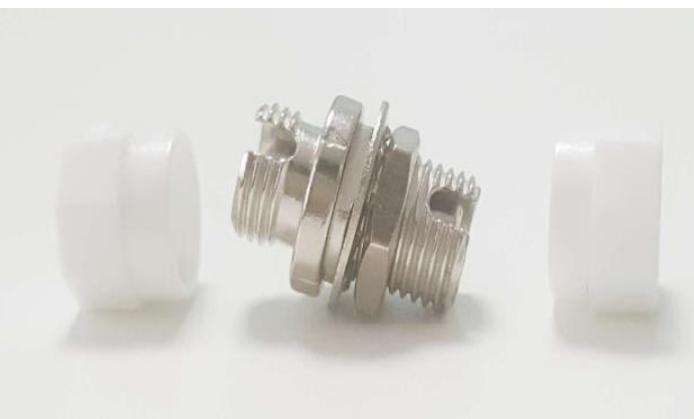
MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

MTRJ/UPC-MTRJ/UPC SM

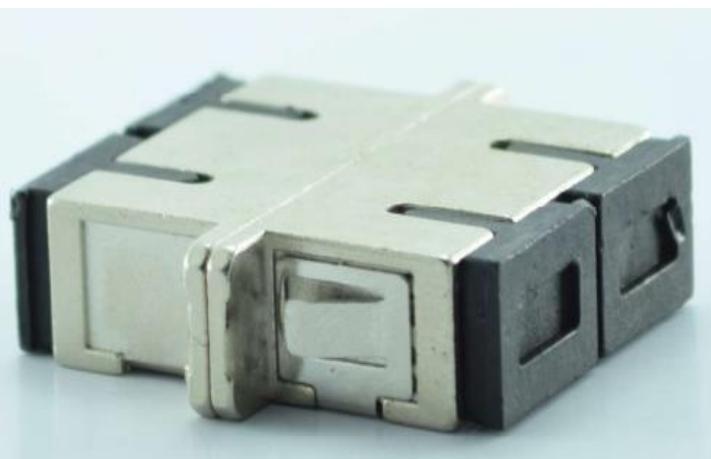


FC/UPC SMALL D



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

SC/UPC SX**SC/UPC DX**

MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, cuadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

**SC/UPC-LC/UPC SM SX HYBRİD
ADAPTER FEMALE-FEMALE METAL**



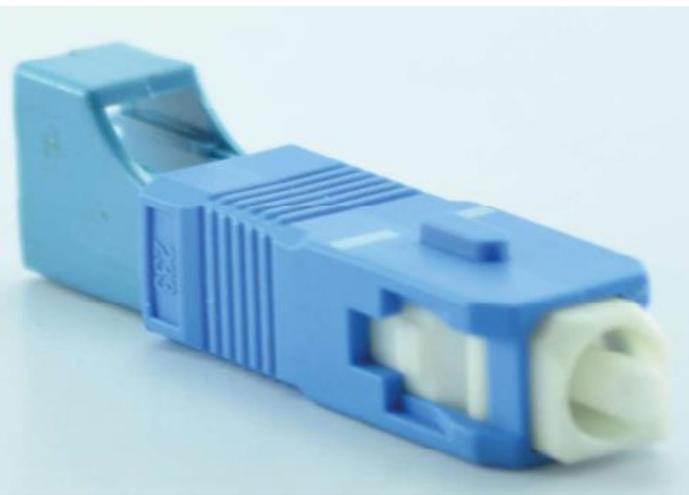
**SC/UPC-LC/UPC SM SX HYBRİD
ADAPTER FEMALE-MALE METAL**



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Simplex, dúplex, quadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

**LC/UPC-SC/UPC SM SX HYBRİD
ADAPTER FEMALE-MALE**



**SC/UPC-FC/APC SM SX HYBRİD
ADAPTER FEMALE-FEMALE METAL**



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símples, dúplex, quadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

**SC/UPC-ST/UPC SM DX HYBRİD
ADAPTER FEMALE-FEMALE**



**SC/APC-FC/UPC MM SX HYBRİD
ADAPTER FEMALE-FEMALE**



MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símples, dúplex, quadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

**LC/UPC-ST/UPC SM SX HYBRİD
ADAPTER FEMALE-FEMALE****FC/UPC-ST/UPC SM SX HYBRİD
ADAPTER FEMALE-FEMALE METAL**

MAIN FEATURES

- Available for connector types SC, LC, FC, ST, MPO, MTRJ, MU
- With zirconia ceramic sleeve or phosphore bronze sleeve
- Regular adapters femalefemale and hybrid types
- Female-female and female-male
- Símplex, dúplex, quadrúplex
- Plastic or metal
- With or without flange
- Several colors available for the plastic housing and the dust cap
- Insertion loss: < 0.20 dB
- Durability: >1000 matings

COLOR SCHEME

ADAPTER BODY COLOR		
SC/APC SX/DX SM	GREEN	
SC/UPC SX/DX SM	BLUE	
SC/UPC SX/DX MM OM1	BEIGE	
SC/UPC SX/DX MM OM2	BEIGE	
SC/UPC SX/DX MM OM3	AQUA	
SC/UPC SX/DX MM OM4	PINK	
LC/APC SX/DX SM	GREEN	
LC/UPC SX/DX SM	BLUE	
LC/UPC SX/DX MM OM1	BEIGE	
LC/UPC SX/DX MM OM2	BEIGE	
LC/UPC SX/DX MM OM3	AQUA	
LC/UPC SX/DX MM OM4	PINK	
FC ALL	METAL	++
ST ALL	METAL	++

CONNECTOR BODY COLOR		
SC/APC SX/DX SM	GREEN	
SC/UPC SX/DX SM	BLUE	
SC/UPC SX/DX MM OM1	BEIGE	
SC/UPC SX/DX MM OM2	BEIGE	
SC/UPC SX/DX MM OM3	BEIGE	
SC/UPC SX/DX MM OM4	BEIGE	
LC/APC SX/DX SM	GREEN	
LC/UPC SX/DX SM	BLUE	
LC/UPC SX/DX MM OM1	BEIGE	
LC/UPC SX/DX MM OM2	BEIGE	
LC/UPC SX/DX MM OM3	BEIGE	
LC/UPC SX/DX MM OM4	BEIGE	
FC ALL	METAL	++
ST ALL	METAL	++

CABLE JACKET		
SM G652D	YELLOW (RAL 1016)	
SM G657A1	YELLOW (RAL 1016)	
SM G657A2	YELLOW (RAL 1021)	
SM G65783	IVORY (RAL 1015)	
MM OM1	ORANGE (RAL 2004)	
MM OM2	ORANGE (RAL 2004)	
MM OM3	AQUA (RAL 6027)	
MM OM4	PINK (RAL 4003)	

CONNECTOR DUST CAP COLOR	
LC/APC SX/DX SM	
LC/UPC ALL	
ALL OTHERS	TRANSPARENT

CONNECTOR BOOT		
SC/APC SX/DX SM	GREEN	
SC/UPC SX/DX SM	BLUE	
SC/UPC SX/DX MM OM1	BEIGE	
SC/UPC SX/DX MM OM2	BEIGE	
SC/UPC SX/DX MM OM3	BEIGE	
SC/UPC SX/DX MM OM4	BEIGE	
LC/APC SX/DX SM	GREEN	
LC/UPC SX/DX SM	BLUE	
LC/UPC SX/DX MM OM1	BEIGE	
LC/UPC SX/DX MM OM2	BEIGE	
LC/UPC SX/DX MM OM3	BEIGE	
LC/UPC SX/DX MM OM4	BEIGE	
FC APC SX SM	GREEN	
FC/UPC ALL	BLACK	
ST ALL	BLACK	

ADAPTER DUST CAP		
SC/APC SX/DX SM	BLACK	
SC/UPC SX/DX SM	BLACK	
SC/UPC SX/DX MM OM1	BLACK	
SC/UPC SX/DX MM OM2	BLACK	
SC/UPC SX/DX MM OM3	BLACK	
SC/UPC SX/DX MM OM4	BLACK	
LC/APC SX/DX SM	WHITE	
LC/UPC SX/DX ALL	WHITE	
FC/APC SX SM	GREEN	
FC/UPC SX SM	WHITE	
FC/UPC SX MM ALL	RED	
ST/UPC SX/DX SM	YELLOW	
ST/UPC SX/DX SM	RED	

SC/APC,SM MALE-
FEMALE,ATTENUATOR 5DB



LC/APC,SM MALE-
FEMALE,ATTENUATOR 5DB



MAIN FEATURES

- Available for connector types SC, LC, FC,ST, MU
- With 2.5MM zirconia ceramic ferrule (SC) or 1.25mm (LC)
- Any number of dB for the attenuation in the range 1-20 dB
- Metallic (connector style) or plastic (adapter style)
- Return Loss :
SM UPC ≥ 50.0 dB,
APC ≥ 60.0 dB
- Durability: 200 cycles

FC/APC,SM MALE-
FEMALE,ATTENUATOR 5DB



ST/UPC,SM MALE-
FEMALE,ATTENUATOR 5DB



MAIN FEATURES

- Available for connector types SC, LC, FC,ST, MU
- With 2.5MM zirconia ceramic ferrule (SC) or 1.25mm (LC)
- Any number of dB for the attenuation in the range 1-20 dB
- Metallic (connector style) or plastic (adapter style)
- Return Loss :
SM UPC ≥ 50.0 dB,
APC ≥ 60.0 dB
- Durability: 200 cycles

LC/UPC,SM MALE-
FEMALE,ATTENUATOR 5DB



MU/UPC SM MALE-FEMALE
ATTENUATOR 10DB



MAIN FEATURES

- Available for connector types SC, LC, FC,ST, MU
- With 2.5MM zirconia ceramic ferrule (SC) or 1.25mm (LC)
- Any number of dB for the attenuation in the range 1-20 dB
- Metallic (connector style) or plastic (adapter style)
- Return Loss :
SM UPC ≥ 50.0 dB,
APC ≥ 60.0 dB
- Durability: 200 cycles

LC/UPC,SM FEMALE-
FEMALE,ATTENUATOR,ADAPTER STYLE, 5DB



SC/APC,SM FEMALE-
FEMALE,ATTENUATOR,ADAPTER STYLE, 5DB



MAIN FEATURES

- Available for connector types SC, LC, FC,ST, MU
- With 2.5MM zirconia ceramic ferrule (SC) or 1.25mm (LC)
- Any number of dB for the attenuation in the range 1-20 dB
- Metallic (connector style) or plastic (adapter style)
- Return Loss :
SM UPC $\geq 50.0\text{dB}$,
APC $\geq 60.0\text{dB}$
- Durability: 200 cycles

SC/UPC,SM MALE-
FEMALE,ATTENUATOR 5DB



FC/UPC,SM MALE-
FEMALE,ATTENUATOR 5DB



MAIN FEATURES

- Available for connector types SC, LC, FC,ST, MU
- With 2.5MM zirconia ceramic ferrule (SC) or 1.25mm (LC)
- Any number of dB for the attenuation in the range 1-20 dB
- Metallic (connector style) or plastic (adapter style)
- Return Loss :
SM UPC ≥ 50.0 dB,
APC ≥ 60.0 dB
- Durability: 200 cycles