VIETFIBER

CONNECTING THE FUTURE WITH YOU

2025

# BUSINESS CATALOG

COPPER-FIBER-ACCESSORIES

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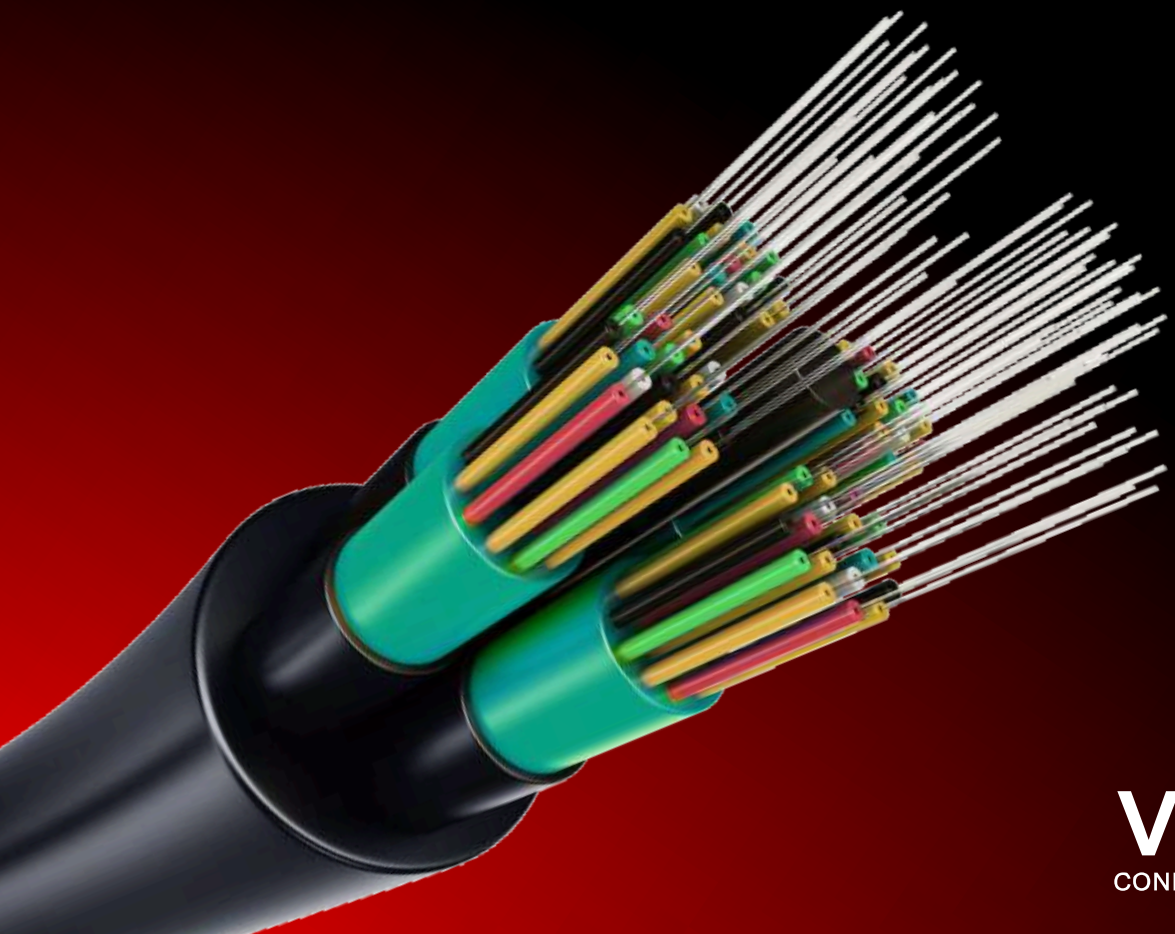
03

# WHO ARE WE?

Vietfiber, a member of Acik Holding, **has been connecting the world with advanced fiber optic and copper solutions since its foundation.** We manufacture high-performance fiber optic cable, patch cables, and copper patch cables, serving a wide range of industries, from operators and internet providers to security and software companies. **Our commitment to innovation, expansion, and sustainability drives us forward.**



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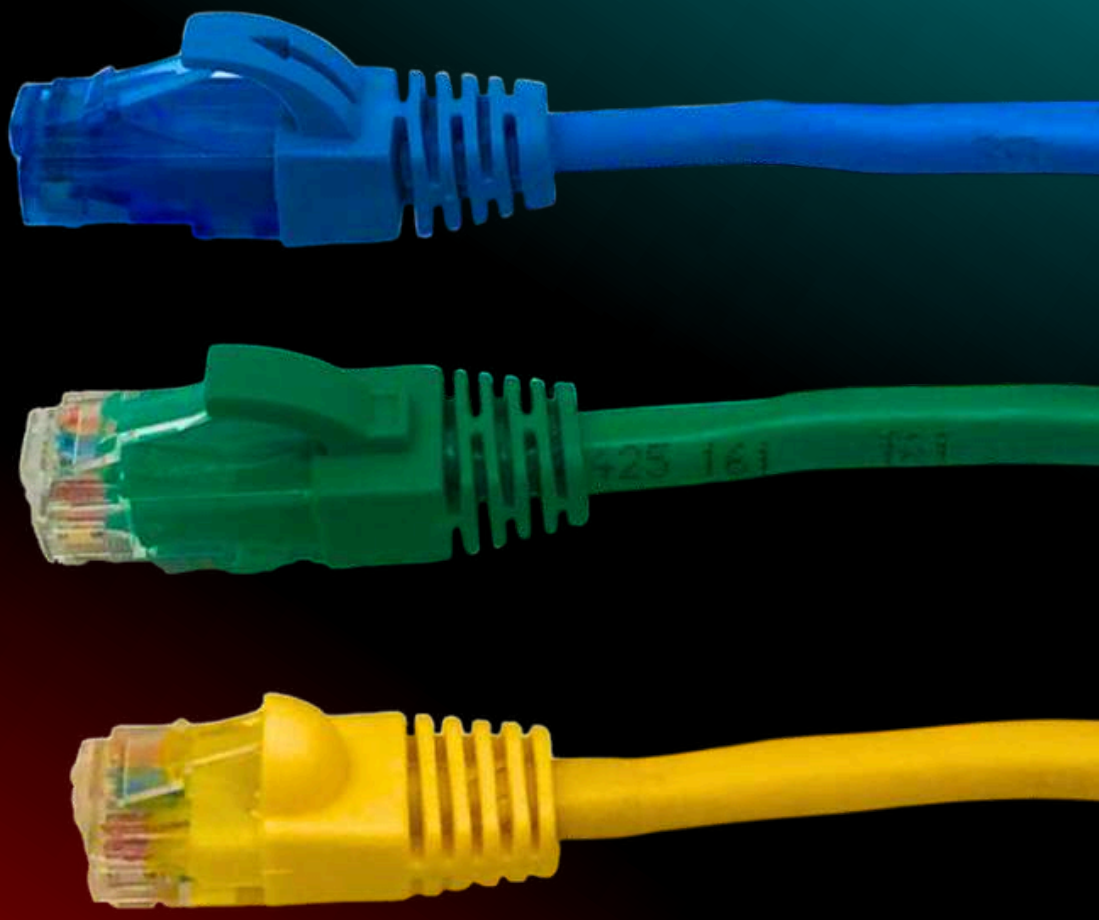
04

# COPPER PATCHCORD



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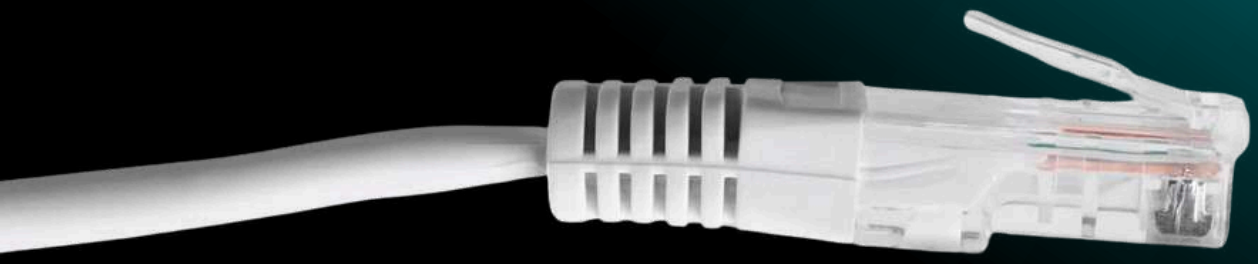
# ABOUT

Category 5E UTP stranded cables exceed Category 5E / Class D specification. It is tested to 100 MHz frequency range and designed to support Gigabit 1000Base-T applications up to 100m.



# CAT 5 E

## STRANDED CABLE

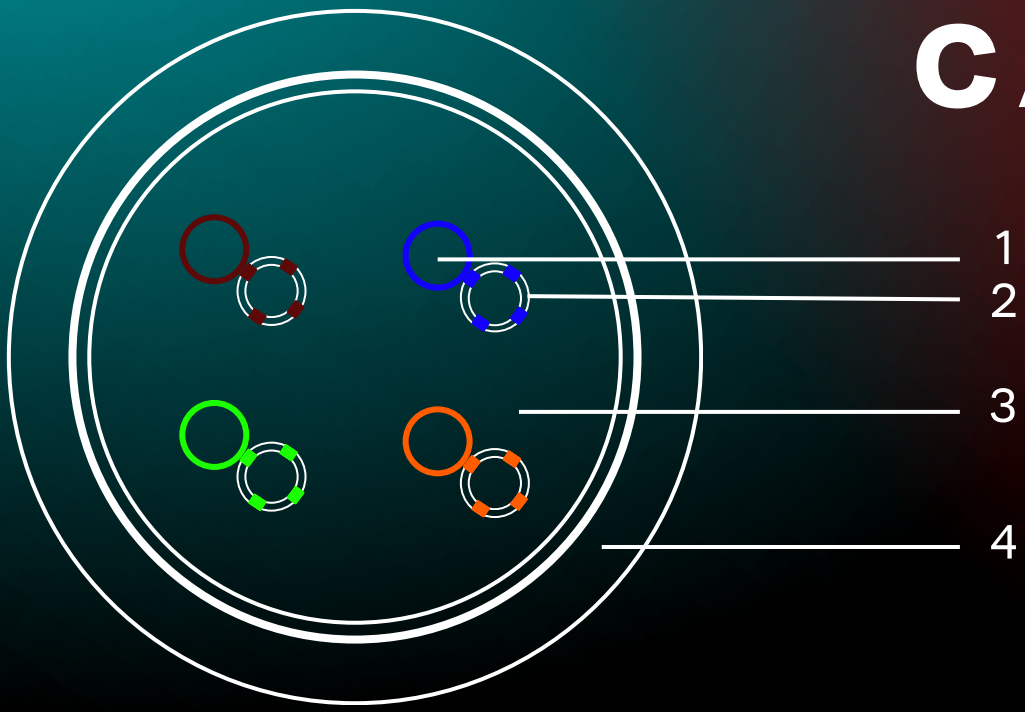
## APPLICATION

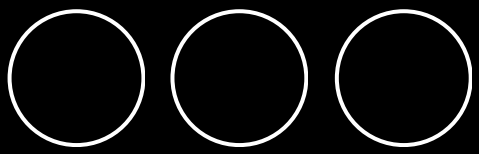
- Work area cable.
- Support current and future Category 5e applications, such as : 1,000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI,

## STANDARD

ANSI/TIA/EIA 568-B.2-1 (2002)
ISO/IEC 11801 2nd edition (2002)
ISO/IEC 11801 Amendment 2 (2010)

# CAT 5E



## 1.CONDUCTOR

**Material** Stranded bare copper ETP.
**Sizes** 24AWG (7X0.18mm (±0.01mm)

## 2.INSULATION

**Material** Polyethylene
**Sizes** 0.85mm

## 3.CABLE CORE

**Pair** 2 twisted Insulated conductors
**Number of pairs** 4, all twisted together
**Colour code pair 1** White / Blue and Blue
**Colour code pair 2** White / Orange and Orange
**Colour code pair 3** White / Green and Green
**Colour code pair 4** White / Brown and Brown

## 4.JACKET

**Material** PVC
**Diameter** 5.1± 0.03mm
**Colour**

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# ELECTRICAL CHARACTERISTICS

# CAT 5E

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| D.C. resistance conductor | <=9.5 | **Ω/100m** |
| Resistance unbalance: within a pair / between pairs | < 2 / <4 | % |
| Insulation resistance | >= 5,000 | MΩ.km |
| Dielectric strength conductor and conductor screen (2s) | 1min (1Kv) | kV |
| Mutual capacitance | < 56 | nF/km |
| Capacitance unbalance pair to ground | < 3,300 | pF/km |
| Nominal velocity of propagation (for information only) | 69 | % |
| Delay skew (differential delay) | <= 40 | ns/100m |
| Transfer impedance according IEC 61156-5 | Grade 2 | |
| Coupling attenuation according IEC 61156-5 | Type II | |

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Elongation at break of the conductors | 18 | % |
| Resistance unbalance: within a pair / between pairs | >= 100 | |
| Insulation resistance | >= 100 | |
| Dielectric strength conductor and conductor screen (2s) | <9 | mPa |

# ENVIRONMENTAL AND OVERALL CHARACTERISTICS

# CAT 5E

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Maximum operating voltage (for all temperatures cable is intended to be used | 72 | **V dc** |
| Maximum continous current per conductor (at 25 C) | 1.5 | A |
| Temperature rating installation | -10 to +50 | °C |
| Temperature rating operation | -25 to +60 | |
| Total cable weight | 31 | kg/km |
| Minimum bending radius (during operation and installation) | 21/42 | mm |
| Maximum pulling strength | 45 | N |
| Burning load | 395 | kJ/m |
| Fire performance according IEC 60332-1 | Pass | |

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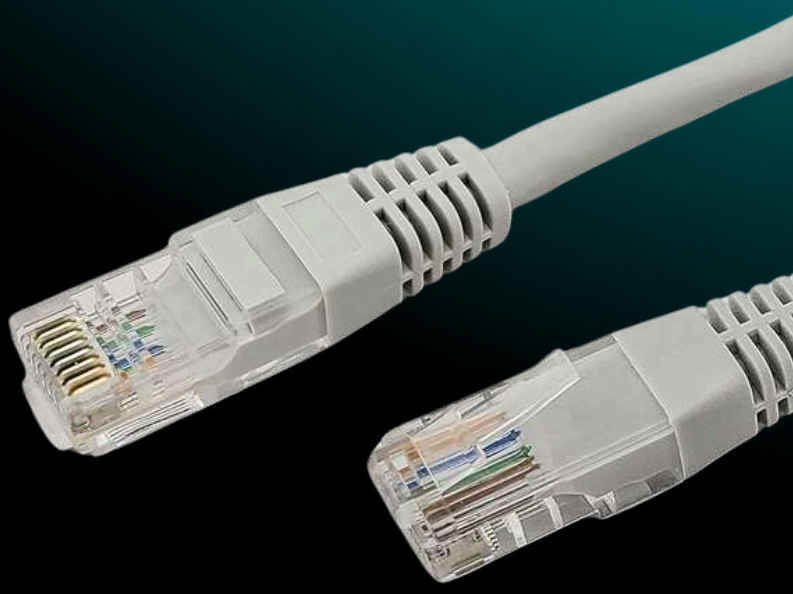
# ABOUT

Cat5e UTP Solid Cable has been designed for Horizontal Cabling Networks for Transmission of High Speed Data, Digital and Analog, Voice and Video Signals on Lans. Supports Gigabit Ethernet (1000 Base-T) Standard Suitable for Noisy Environments, High EMI Interference Surroundings and Complies to the Requirement of ANSI/TIA-568-C.2andISO/IEC11801. Bandwidth Performance Up to 100mhz.



# CAT 5 E

## SOLID CABLE

## APPLICATION

- Work area cable.
- Support current and future

Category 5e applications, such as :
1,000Base-T (Gigabit Ethernet),
100 Base-T, 10 Base-T, FDDI

## STANDARD

ANSI/TIA/EIA 568-B.2-1 (2002)
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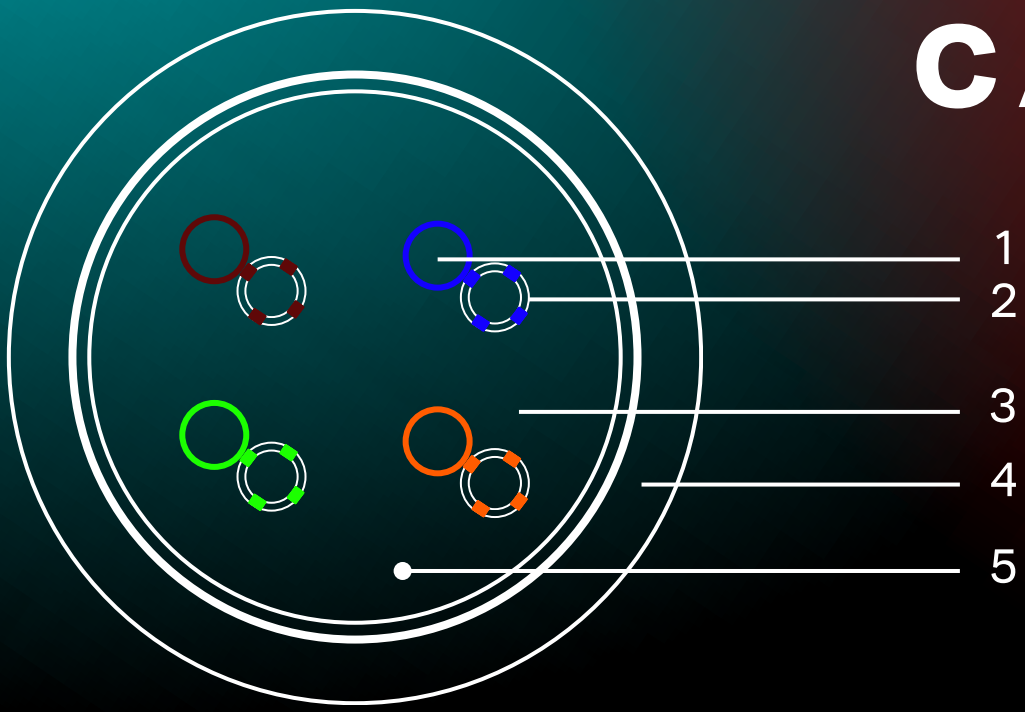
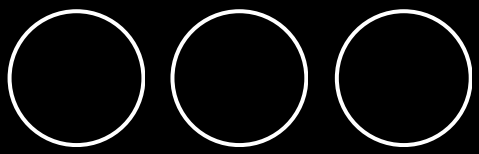
# CAT 5E



## 1.CONDUCTOR

**Material** Solid bare copper ETP.
**Sizes** 24AWG

## 2.INSULATION

**Material** Polyethylene
**Sizes** 0.85mm

## 3.CABLE CORE

**Pair** 2 twisted Insulated conductors
**Number of pairs** 4, all twisted together
**Colour code pair 1** White / Blue and Blue
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**Colour code pair 3** White / Green and Green
**Colour code pair 4** White / Brown and Brown

## 4.JACKET

**Material** PVC
**Diameter** 5.1± 0.03mm
**Colour**

## 5.RIPCORD

**Material** Polyethylene

# ELECTRICAL CHARACTERISTICS

# CAT 5E

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| D.C. resistance conductor | <=9.5 | **Ω/100m** |
| Resistance unbalance: within a pair / between pairs | < 2 / <4 | % |
| Insulation resistance | >= 5,000 | MΩ.km |
| Dielectric strength conductor and conductor screen (2s) | 1min (1Kv) | kV |
| Mutual capacitance | < 56 | nF/km |
| Capacitance unbalance pair to ground | < 3,300 | pF/km |
| Nominal velocity of propagation (for information only) | 69 | % |
| Delay skew (differential delay) | <= 40 | ns/100m |
| Transfer impedance according IEC 61156-5 | Grade 2 | |
| Coupling attenuation according IEC 61156-5 | Type II | |

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Elongation at break of the conductors | 20 | % |
| Resistance unbalance: within a pair / between pairs | >= 100 | |
| Insulation resistance | >= 100 | |
| Dielectric strength conductor and conductor screen (2s) | <9 | mPa |

# ENVIRONMENTAL AND OVERALL CHARACTERISTICS

# CAT 5E

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Maximum operating voltage (for all temperatures cable is intended to be used | 72 | **V dc** |
| Maximum continous current per conductor (at 25 C) | 1.5 | A |
| Temperature rating installation | -10 to +50 | °C |
| Temperature rating operation | -25 to +60 | |
| Total cable weight | 31 | kg/km |
| Minimum bending radius (during operation and installation) | 21/42 | mm |
| Maximum pulling strength | 45 | N |
| Burning load | 395 | kJ/m |
| Fire performance according IEC 60332-1 | Pass | |

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# ABOUT

Category 6 is an Ethernet cable standard defined by the Electronic Industries Association and Telecommunications Industry Association. Cat 6 is the sixth generation of twisted pair Ethernet cabling that is used in home and business networks.

# CAT 6

## STRANDED CABLE

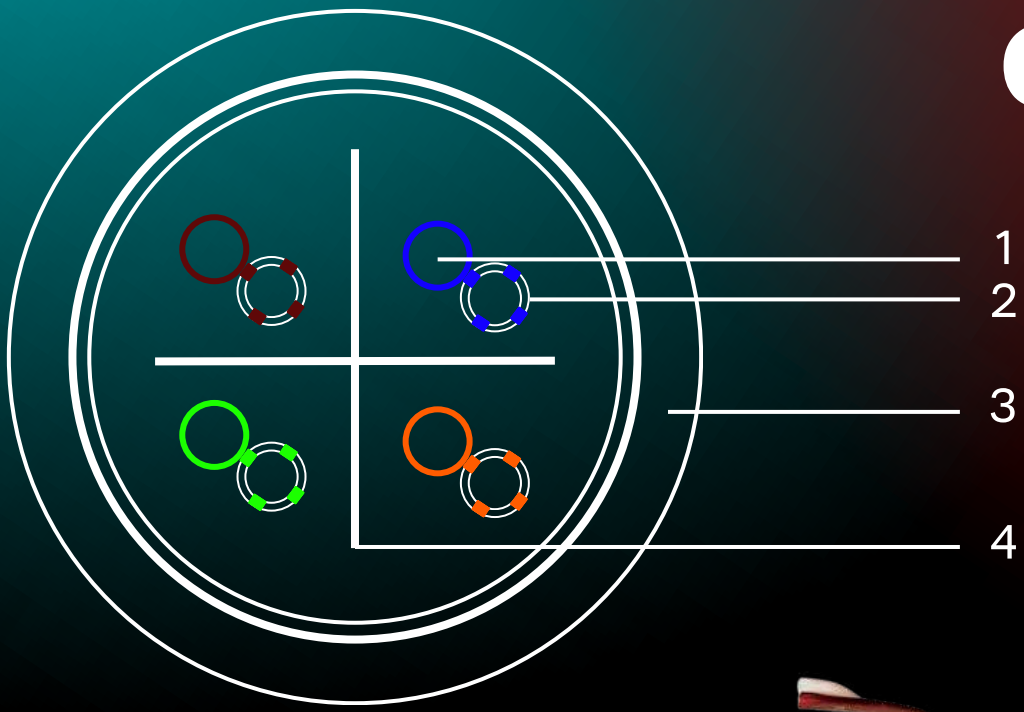
## APPLICATION

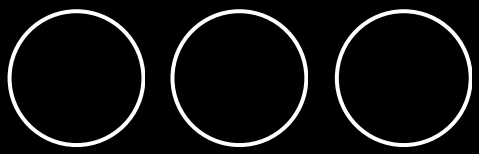
- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mb/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (POE)
- 4/16 Mb/s Token Ring
- Digital Video, Broadband and Baseband Analog Video

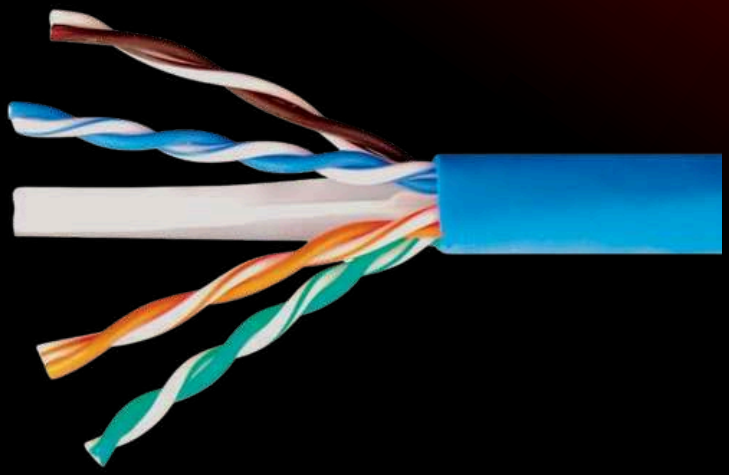
## STANDARD

ISO/IEC 11801:2002 Class E
TIA/EIA 568-B.2-1, TIA/EIA 568-C, TIA/EIA 568-C.2 IEC61156-5, IEC 60332-1, 60754-1, 60754-2, 61034-2 EN 50173-1, EN 50288-6-1

# CAT 6





## 1.CONDUCTOR

**Material** Stranded copper
**Sizes** 24AWG (7X0.18mm (±0.01mm)

## 2.INSULATION

**Material** Polyethylene
**Sizes** 0.85 ± 0.05mm

## 3.JACKET

**Material** PVC
**Diameter** 6.0 ± 0.03mm
**Colour**

## 4.CROSS SEPARATOR

**Material** HDPE
**Colour** White
**Thickness** 0.45mm

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# CAT 6

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Dielectric strength between conductors | DC, 1min (1kV) | **kV** |
| Impedance | 110 | Ω |
| Operating frequency, maximum | 250 | MHz |
| Propagation delay | 536 | ns/100 m Max |
| Skew delay | 45 ns | ns/100 m Max |
| Mutual capacitance | 5.6 | no Max./100m |
| Conductor | 6.65 | ΩMax./100m |
| Normal Velocity of Propagation NVP | 69 | % |
| TVL | 30-10 | log (f/100) dB |
| Insulation resitance | >=5000 | MΩ .km |
| DC resitance unbalance | 3 | % |

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CAT 6

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Minimum bend radius during installation | 8x outside dia | mm |
| Minimum bend radius after installation | 4x outside dia | |
| Installation temp. | -10 to + 50 | °C |
| Operating temp. | -25 to + 60 | |
| Storage temp. | -25 to + 70 | |

# INSTALLATION CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Maximum pulling tension | 90 | N |
| Minimum bend radius during installation | 55 | mm |
| Minimum installed bend radius | 27 | mm |
| Normal weight | 35 | kg/km |

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# ABOUT

Category 6 is an Ethernet cable standard defined by the Electronic Industries Association and Telecommunications Industry Association. Cat 6 is the sixth generation of twisted pair Ethernet cabling that is used in home and business networks.

# CAT 6

## SOLID CABLE

## APPLICATION

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mb/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (POE)
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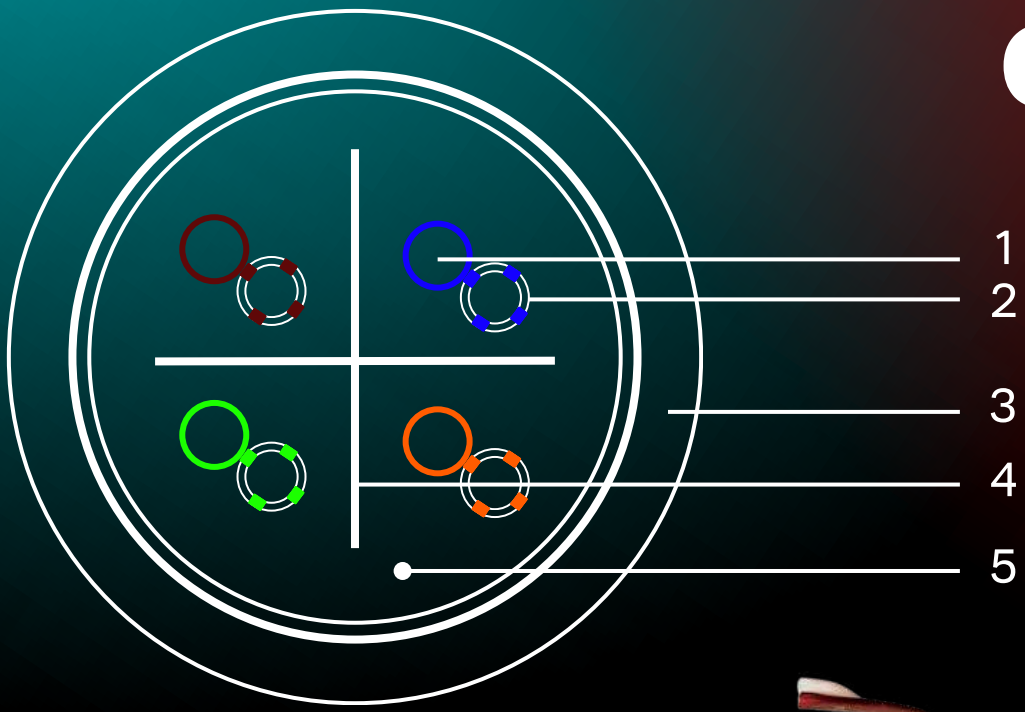
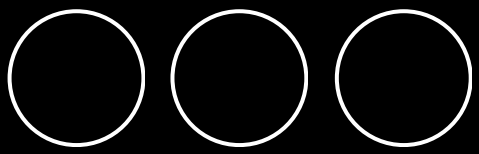
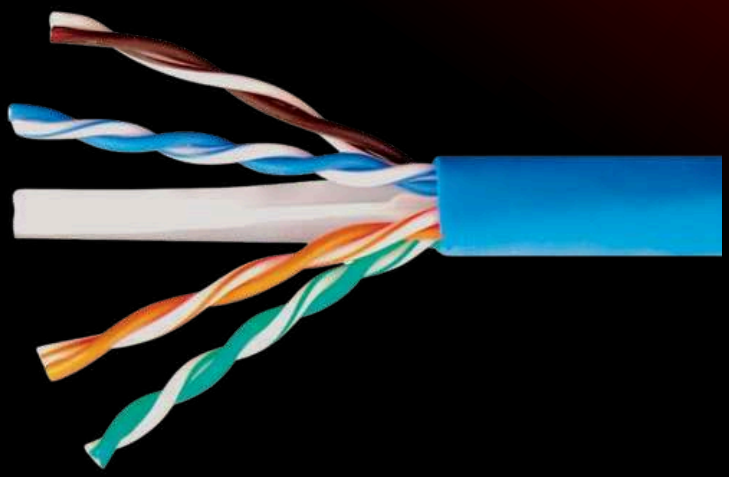
# CAT 6





## 1.CONDUCTOR

**Material** Solid copper
**Sizes** 24AWG (0.57mm)

## 2.INSULATION

**Material** Polyethylene
**Sizes** 1.0 ± 0.05mm

## 3.JACKET

**Material** PVC
**Diameter** 6.0 ± 0.03mm
**Colour**

## 4.CROSS SEPARATOR

**Material** HDPE
**Colour** White
**Thickness** 0.45mm

## 5.RIPCORD

**Material** Polyethylene

# CAT 6

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Dielectric strength between conductors | DC, 1min (1kV) | **kV** |
| Impedance | 100 | Ω |
| Operating frequency, maximum | 250 | MHz |
| Propagation delay | 536 | ns/100 m Max |
| Skew delay | 45 ns | ns/100 m Max |
| Mutual capacitance | 5.6 | no Max./100m |
| Conductor | 6.65 | ΩMax./100m |
| Normal Velocity of Propagation NVP | 69 | % |
| TVL | 30-10 | log (f/100) dB |
| Insulation resitance | >=5000 | MΩ .km |
| DC resitance unbalance | 3 | % |

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# CAT 6

## MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Minimum bend radius during installation | 8x outside dia | mm |
| Minimum bend radius after installation | 4x outside dia | |
| Installation temp. | -10 to + 50 | °C |
| Operating temp. | -25 to + 60 | |
| Storage temp. | -25 to + 70 | |

## INSTALLATION CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Maximum pulling tension | 90 | N |
| Minimum bend radius during installation | 55 | mm |
| Minimum installed bend radius | 27 | mm |
| Normal weight | 40 | kg/km |

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# ABOUT

Category 6 is an Ethernet cable standard defined by the Electronic Industries Association and Telecommunications Industry Association. Cat 6 is the sixth generation of twisted pair Ethernet cabling that is used in home and business networks.

# CAT 6

## SFTP CABLE

## APPLICATION

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mb/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
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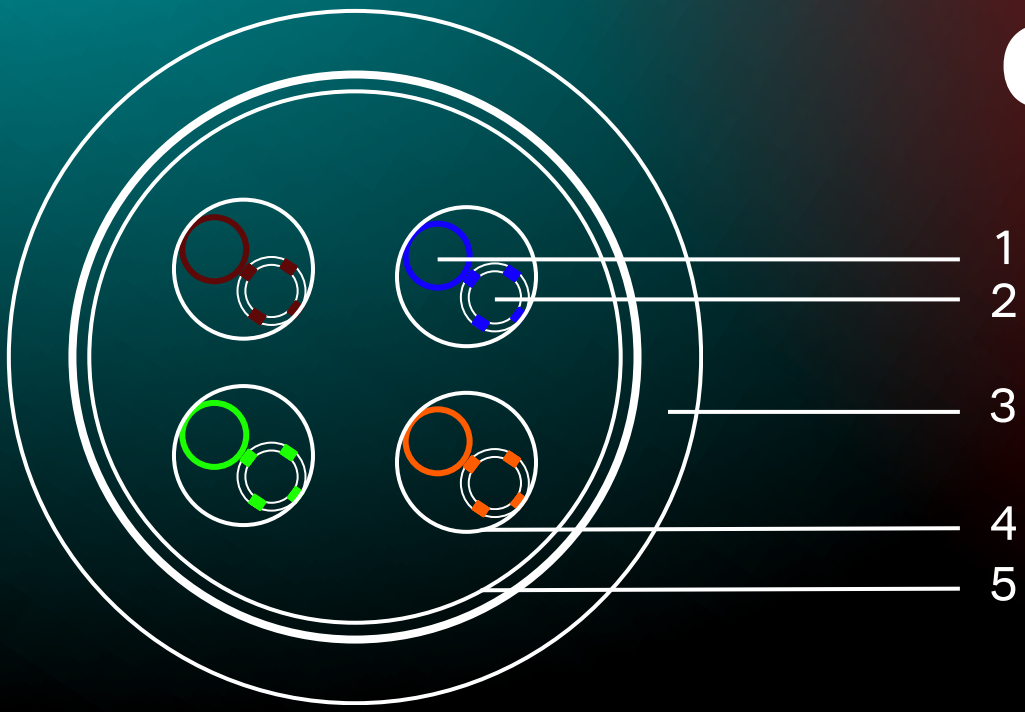
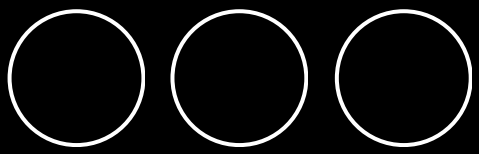
# CAT 6



## 1.CONDUCTOR

**Material** Stranded copper
**Sizes** 24AWG (7x0.18mm)

## 2.INSULATION

**Material** Polyethylene
**Sizes** 0.85 ± 0.05mm

## 3.JACKET

**Material** PVC
**Diameter** 5.3 ± 0.03mm
**Colour**

## 4.FOIL

**Material** Aluminum

## 5.SHIELD

**Material** Tinned copper

# CAT 6

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Dielectric strength between conductors | DC, 1min (1kV) | **kV** |
| Impedance | 110 | Ω |
| Operating frequency, maximum | 250 | MHz |
| Propagation delay | 536 | ns/100 m Max |
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| TVL | 30-10 | log (f/100) dB |
| Insulation resitance | >=5000 | MΩ .km |
| DC resitance unbalance | 3 | % |

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CAT 6

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
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| Minimum bend radius during installation | 8x outside dia | mm |
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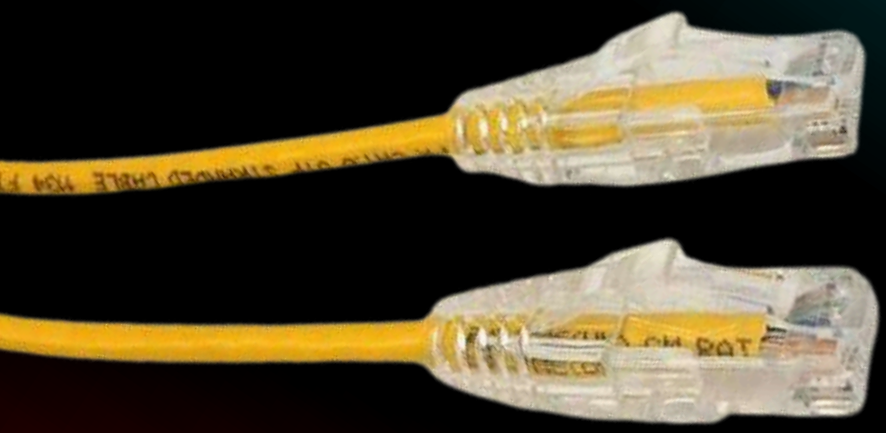

# CAT 6

## SLIM CABLE

## APPLICATION

- IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-TX, 10BASE-T ANSI/TIA/EIA-854: 1000BASE-TX
- 155 Mb/s, 1.2 Gb/s ATM
- ANSI X3.263: 100 Mb/s
- IEEE 802.3af DTE Power (POE)
- 4/16 Mb/s Token Ring
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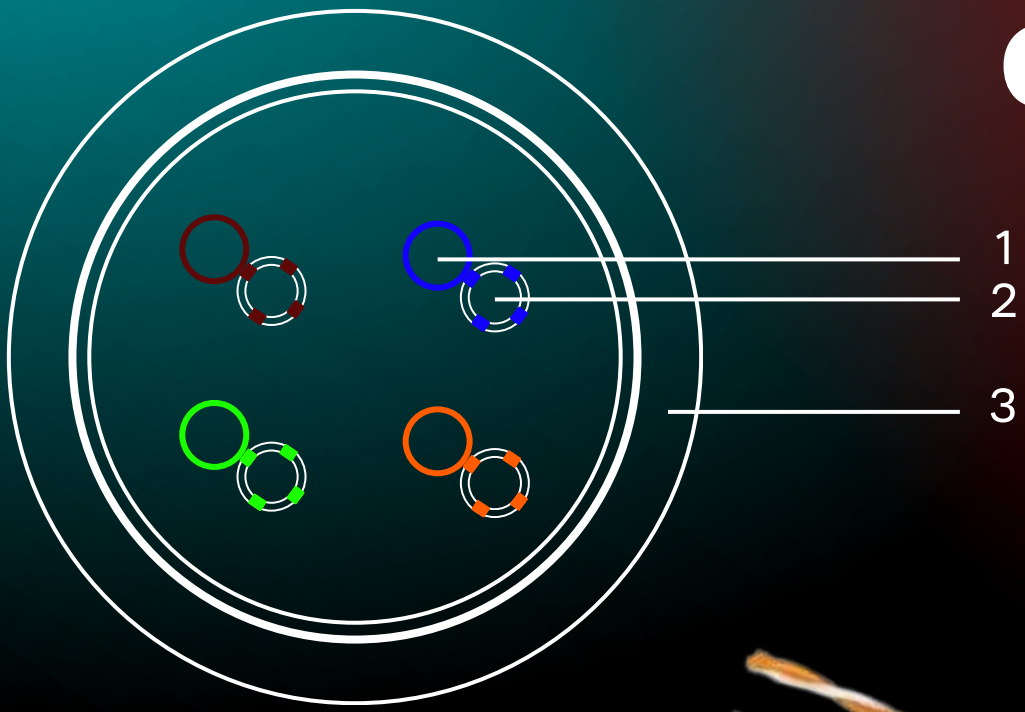


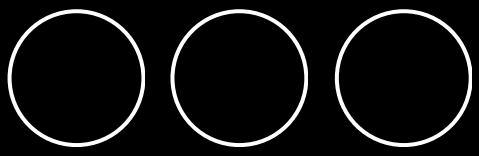

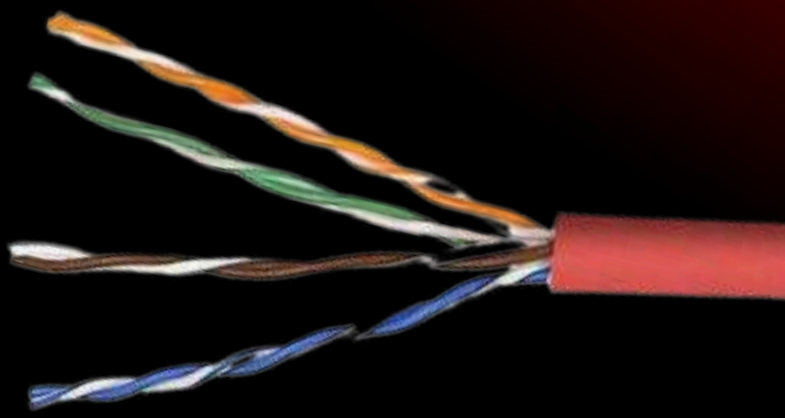

## 1.CONDUCTOR

**Material** Stranded copper
**Sizes** 28AWG
(7X0.12mm (±0.01mm))

## 2.INSULATION

**Material** Polyethylene
**Sizes** 0.55 ± 0.05mm

## 3.JACKET

**Material** PVC
**Diameter** 3.8 ±0.02 mm
**Colour**

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# CAT 6

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Dielectric strength between conductors | DC, 1min (1kV) | **kV** |
| Impedance | 220 | Ω |
| Operating frequency, maximum | 250 | MHz |
| Propagation delay | 536 | ns/100 m Max |
| Skew delay | 45 ns | ns/100 m Max |
| Mutual capacitance | 5.6 | no Max./100m |
| Conductor | 6.65 | ΩMax./100m |
| Normal Velocity of Propagation NVP | 65 | % |
| TVL | 30-10 | log (f/100) dB |
| Insulation resitance | >=5000 | MΩ .km |
| DC resitance unbalance | 3 | % |

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# CAT 6

## MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Minimum bend radius during installation | 8x outside dia | mm |
| Minimum bend radius after installation | 4x outside dia | |
| Installation temp. | -10 to + 50 | °C |
| Operating temp. | -25 to + 60 | |
| Storage temp. | -25 to + 70 | |

## INSTALLATION CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Maximum pulling tension | 90 | N |
| Minimum bend radius during installation | 55 | mm |
| Minimum installed bend radius | 27 | mm |
| Normal weight | 18 | kg/km |

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# ABOUT

The Category 6 Augmented cable standard, or Cat 6a, was created to further improve the performance of Cat 6 Ethernet cables

# CAT 6A

## STRANDED CABLE

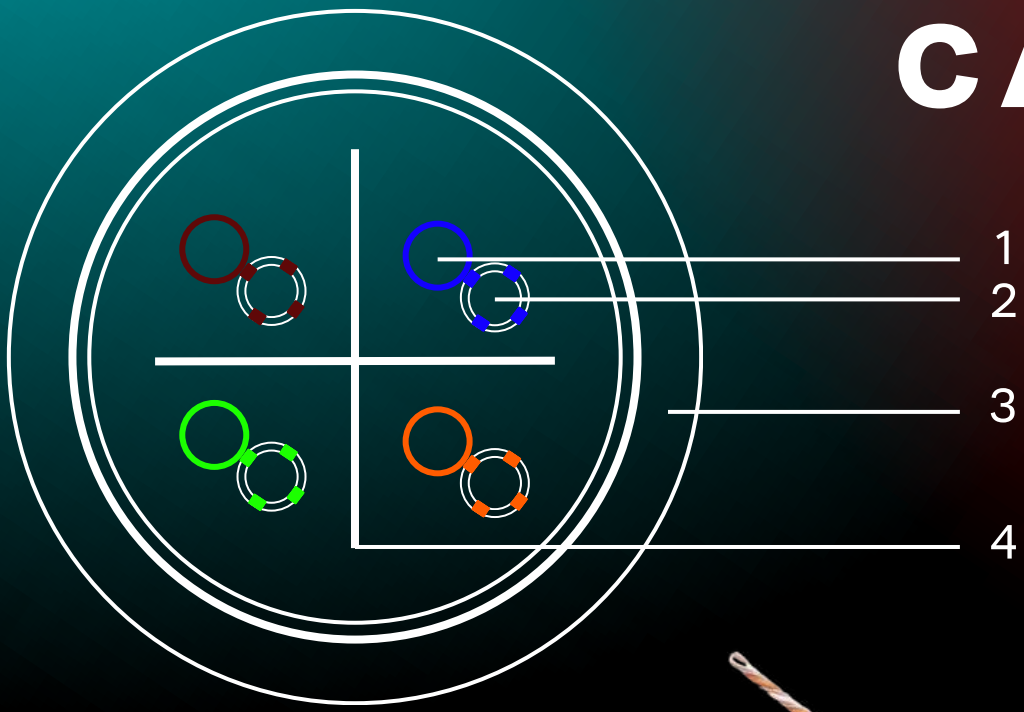
## APPLICATION

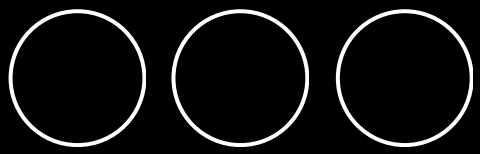
- Supports category 6A (Class EA) networks running up to 500MHz applications
- Horizontal and backbone in structured cabling installations

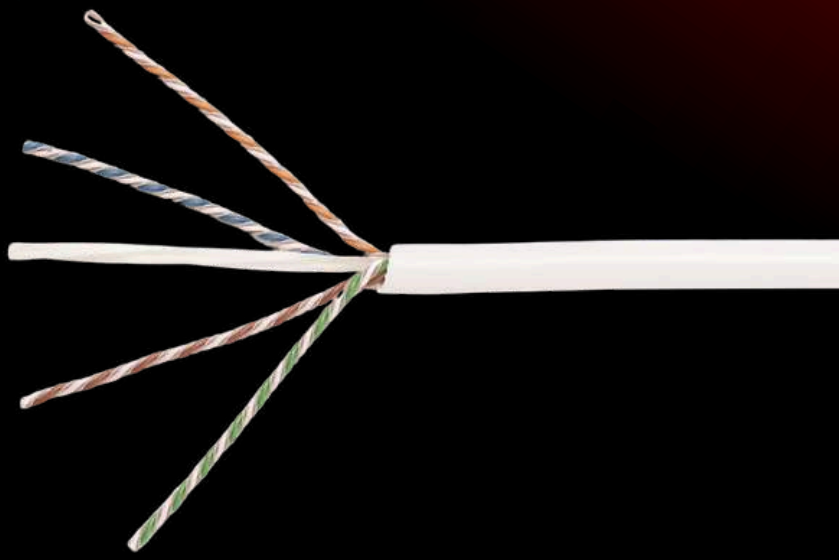
## STANDARD

ANSI/TIA-568-C.2
ISO 11801
IEC 60603-7
ETL Verified

# CAT 6A





## 1.CONDUCTOR

**Material** Stranded copper
**Sizes** 24AWG (7X0.2mm (±0.01mm)

## 2.INSULATION

**Material** Polyethylene
**Sizes** 1.0 ± 0.05mm

## 3.JACKET

**Material** PVC
**Diameter** 6.0 ± 0.03mm
**Colour**

## 4.CROSS SEPARATOR

**Material** HDPE
**Colour** White

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# CAT 6A

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| D.C. resistance conductor | < 9.38 | **Ω/100m** |
| Resistance unbalance: within a pair / between pairs | <=3 | % |
| Capacitance unbalance pair to ground | < 3,300 | pF/km |
| Delay skew (differential delay) | <= 45 | ns/100m |
| Nominal velocity of propagation (for information only) | 68 | % |
| Propagation Delay (Nominal) | 533 | ns/100m at 500MHz |
| Test Voltage (d.c for 1 minute) Conductor / Conductor | 1000V | VDC |
| Insulation Resistance (100~500V D.C) | >= 5000 | MΩ/km |
| DC resitance unbalance | 3 | % |

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# CAT 6A

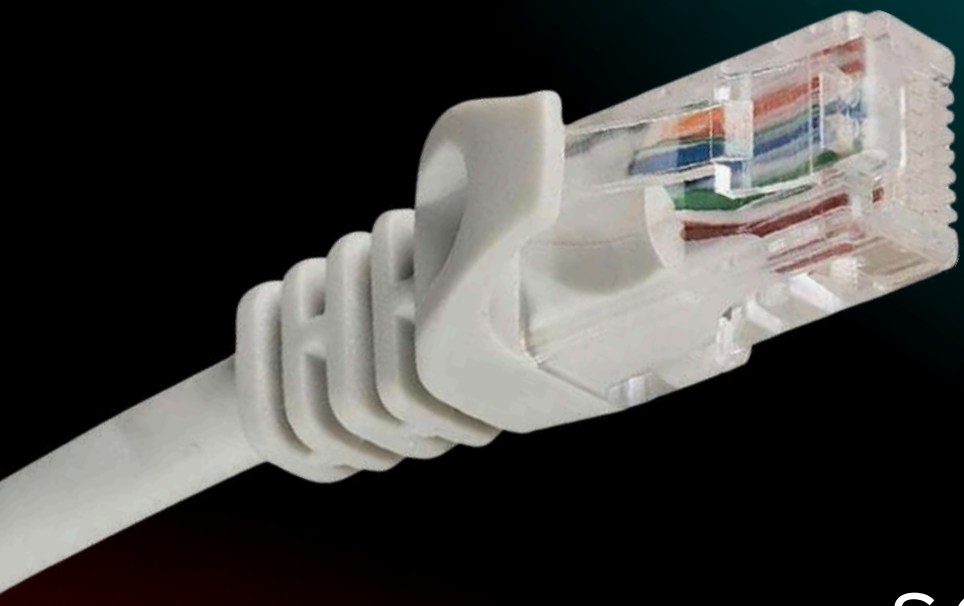
# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Bulk Cable Weight | 40 | **Kg/Km** |
| Max. Pull Tension | 100 | N |
| Min. Bend Radius (installation) | 8x | OD |
| Min. Bend Radius (installed) | 4x | OD |
| Cold Bend | No Crack | @-20 C x 4hrs |
| Storage Temp. | -25 to + 70 | °C |
| Operation Temp. | -25 to + 60 | |
| Installation Temp. | -10 to + 50 | |

VIETFIBER
CONNECTING THE FUTURE WITH YOU

# ABOUT

The Category 6 Augmented cable standard, or Cat 6a, was created to further improve the performance of Cat 6 Ethernet cables



# CAT 6A

## SOLID CABLE

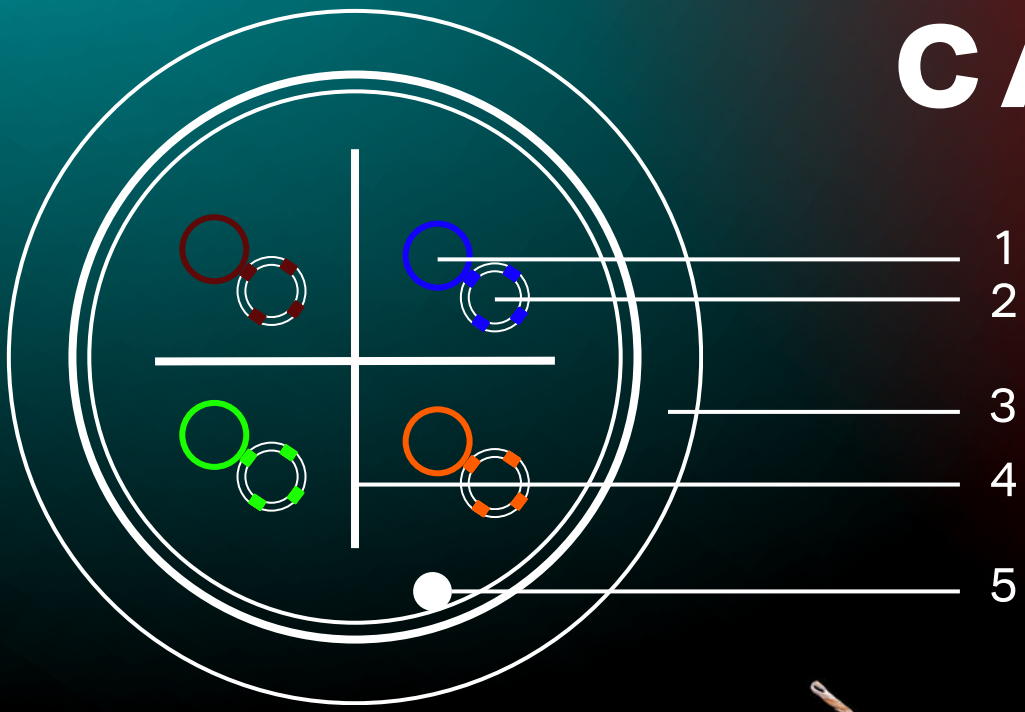
## APPLICATION

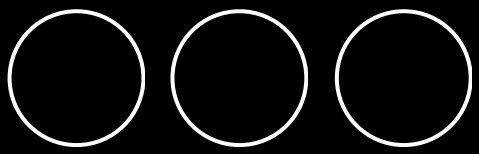
- Supports category 6A (Class EA) networks running up to 500MHz applications
- Horizontal and backbone in structured cabling installations

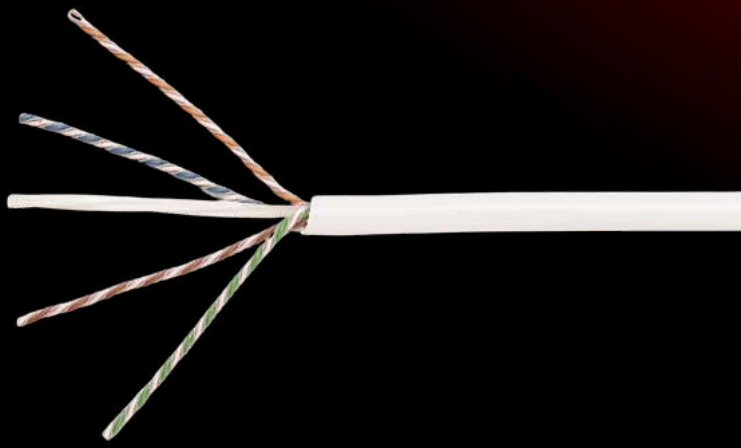
## STANDARD

ANSI/TIA-568-C.2
ISO 11801
IEC 60603-7
ETL Verified

# CAT 6A





## 1.CONDUCTOR

**Material** Solid copper
**Sizes** 24AWG (0.55mm)

## 2.INSULATION

**Material** HDPE
**Sizes** 1.0 ± 0.05mm

## 3.JACKET

**Material** PVC
**Diameter** 6.5 ± 0.03mm
**Colour**

## 4.CROSS SEPARATOR

**Material** HDPE
**Colour** White

## 5.RIPCORD

**Material** Polyethylene

# CAT 6A

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| D.C. resistance conductor | < 9.38 | **Ω/100m** |
| Resistance unbalance: within a pair / between pairs | <=3 | % |
| Capacitance unbalance pair to ground | < 3,300 | pF/km |
| Delay skew (differential delay) | <= 45 | ns/100m |
| Nominal velocity of propagation (for information only) | 68 | % |
| Propagation Delay (Nominal) | 533 | ns/100m at 500MHz |
| Test Voltage (d.c for 1 minute) Conductor / Conductor | 1000V | VDC |
| Insulation Resistance (100~500V D.C) | >= 5000 | MΩ/km |

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# CAT 6A

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Bulk Cable Weight | 42 | **Kg/Km** |
| Max. Pull Tension | 100 | N |
| Min. Bend Radius (installation) | 8x | OD |
| Min. Bend Radius (installed) | 4x | OD |
| Cold Bend | No Crack | @-20 C x 4hrs |
| Storage Temp. | -25 to + 70 | °C |
| Operation Temp. | -25 to + 60 | |
| Installation Temp. | -10 to + 50 | |

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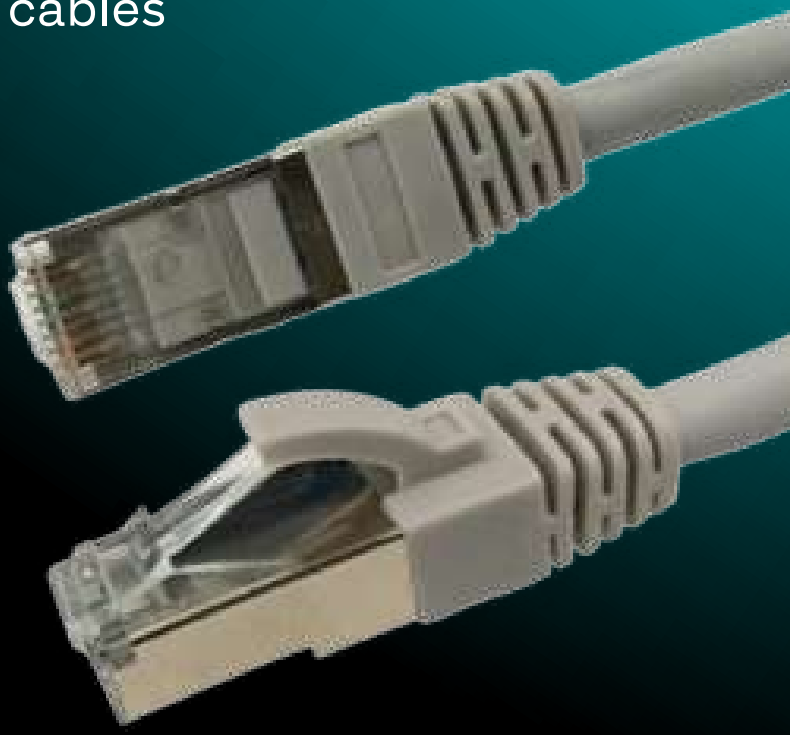
# ABOUT

The Category 6 Augmented cable standard, or Cat 6a, was created to further improve the performance of Cat 6 Ethernet cables



# CAT 6A

## SFTP CABLE

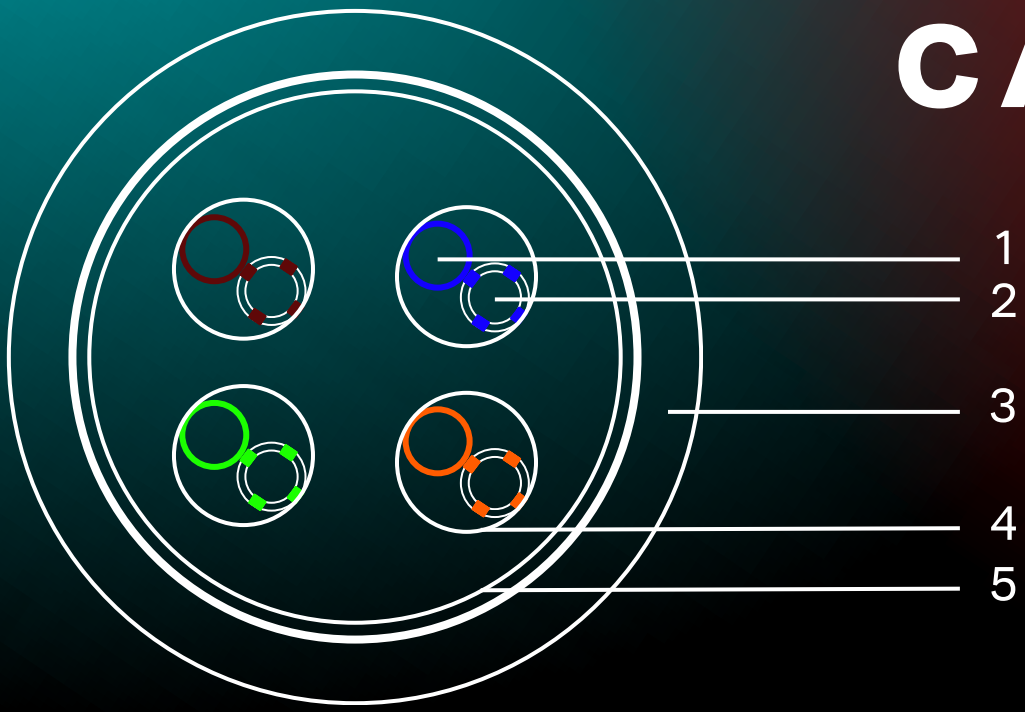
# APPLICATION

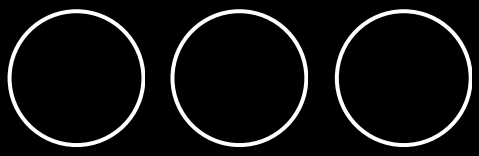
- Supports category 6A (Class EA) networks running up to 500MHz applications
- Horizontal and backbone in structured cabling installations

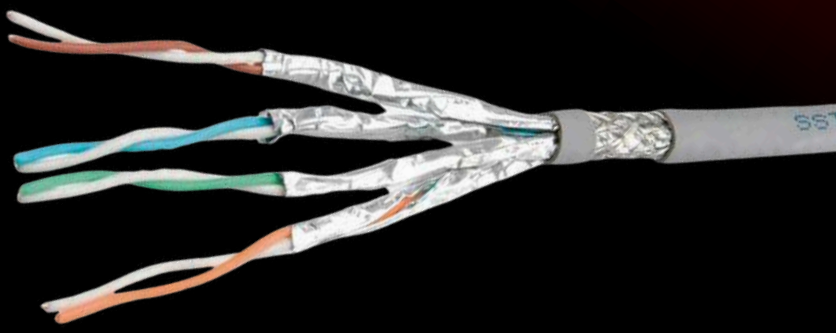
# STANDARD

ANSI/TIA-568-C.2
ISO 11801
IEC 60603-7
ETL Verified

# CAT 6A





## 1.CONDUCTOR

**Material** Stranded copper
**Sizes** 26AWG
(7X0.16mm (±0.01mm))

## 2.INSULATION

**Material** FPE
**Sizes** 1.0 ± 0.05 mm

## 3.JACKET

**Material** PVC
**Diameter** 6.5 ± 0.03mm
**Colour**

## 4.FOIL

**Material** Aluminum

## 5.SHIELD

**Material** Tinned copper

# CAT 6A

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| D.C. resistance conductor | < 9.38 | **Ω/100m** |
| Resistance unbalance: within a pair / between pairs | <=3 | % |
| Capacitance unbalance pair to ground | < 3,300 | pF/km |
| Delay skew (differential delay) | <= 45 | ns/100m |
| Nominal velocity of propagation (for information only) | 68 | % |
| Propagation Delay (Nominal) | 533 | ns/100m at 500MHz |
| Test Voltage (d.c for 1 minute) Conductor / Conductor | 1000V | VDC |
| Insulation Resistance (100~500V D.C) | >= 5000 | MΩ/km |

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# CAT 6A

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Bulk Cable Weight | 42 | **Kg/Km** |
| Max. Pull Tension | 100 | N |
| Min. Bend Radius (installation) | 8x | OD |
| Min. Bend Radius (installed) | 4x | OD |
| Cold Bend | No Crack | @-20 C x 4hrs |
| Storage Temp. | -25 to + 70 | °C |
| Operation Temp. | -25 to + 60 | |
| Installation Temp. | -10 to + 50 | |

VIETFIBER
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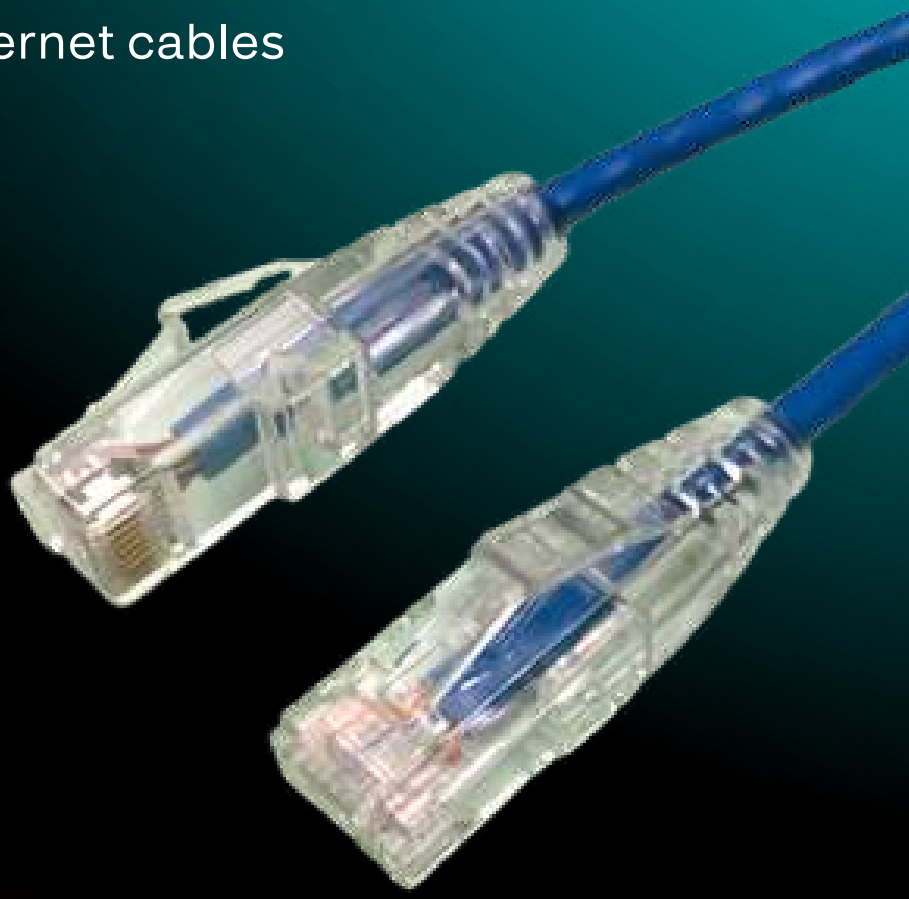
# ABOUT

The Category 6 Augmented cable standard, or Cat 6a, was created to further improve the performance of Cat 6 Ethernet cables



# CAT 6A

## SLIM CABLE

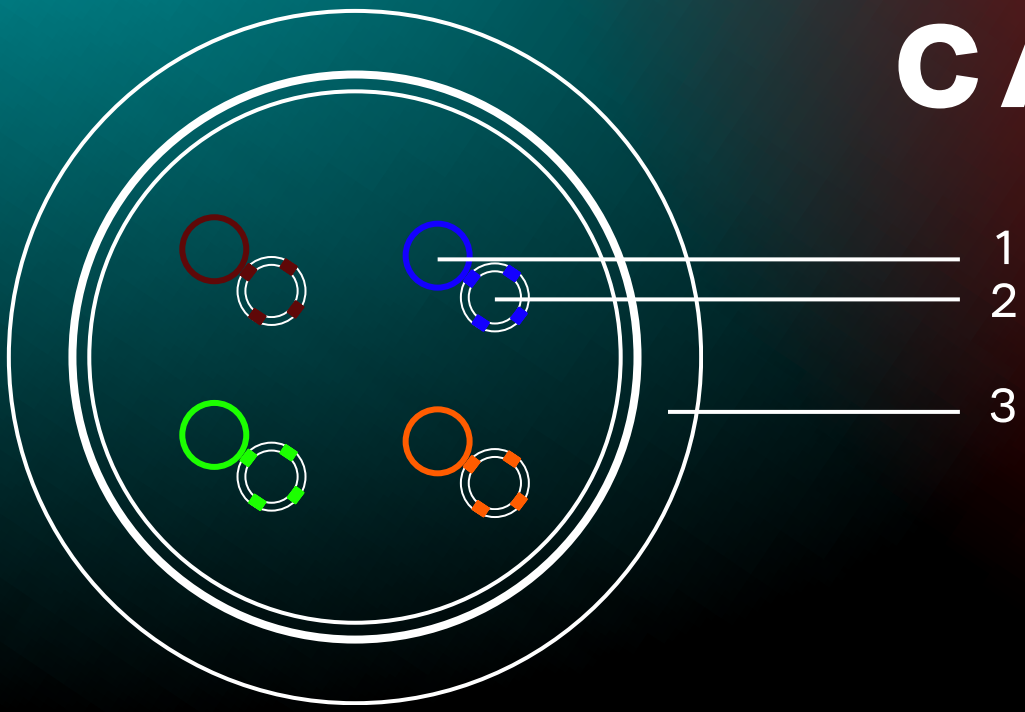
# APPLICATION

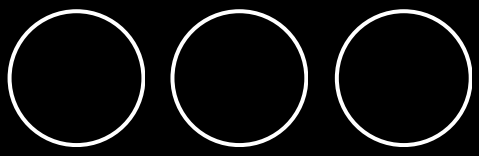
- Supports category 6A (Class EA) networks running up to 500MHz applications
- Horizontal and backbone in structured cabling installations

# STANDARD

ANSI/TIA-568-C.2
ISO 11801
IEC 60603-7
ETL Verified

# CAT 6A



## 1.CONDUCTOR

**Material** Stranded copper
**Sizes** 28 AWG
(7x0.12mm(±0.01mm))

## 2.INSULATION

**Material** HDPE
**Sizes** 0.6 ± 0.05mm

## 3.JACKET

**Material** PVC
**Thickness** 0.55±0.03 mm
**OD** 3.8mm
**Colour**

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CONNECTING THE FUTURE WITH YOU

# CAT 6A

# ELECTRICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| D.C. resistance conductor | < 22 | **Ω/100m** |
| Resistance unbalance: within a pair / between pairs | <=3 | % |
| Capacitance unbalance pair to ground | < 3,300 | pF/km |
| Delay skew (differential delay) | <= 45 | ns/100m |
| Nominal velocity of propagation (for information only) | 65 | % |
| Propagation Delay (Nominal) | 533 | ns/100m at 500MHz |
| Test Voltage (d.c for 1 minute) Conductor / Conductor | 1000V | VDC |
| Insulation Resistance (100~500V D.C) | >= 5000 | MΩ/km |

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CONNECTING THE FUTURE WITH YOU

# CAT 6A

# MECHANICAL CHARACTERISTICS

| LOW FREQUENCY AND D.C (AT 20 C) | SPECIFICATION | UNIT |
|---|---|---|
| Bulk Cable Weight | 19 | **Kg/Km** |
| Max. Pull Tension | 100 | N |
| Min. Bend Radius (installation) | 8x | OD |
| Min. Bend Radius (installed) | 4x | OD |
| Cold Bend | No Crack | @-20 C x 4hrs |
| Storage Temp. | -25 to + 70 | °C |
| Operation Temp. | -25 to + 60 | |
| Installation Temp. | -10 to + 50 | |

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# FIBER OPTIC PRODUCTS

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# FIBER OPTIC **CABLE**

**CONNECTOR TYPE** SC / ST / LC / FC

**MODE** 9/125UM - 62.5/125UM
- 50/125UM

**POLISH** UPC OR APC

**WAVELENGTH** 1310/1550NM | 850/1300NM
FOR MULTIMODE

**LENGTH** 1M-15M OR CUSTOMIZED

**FIBER TYPE** SIMPLEX OR DUPLEX

**INSERTION LOSS TYPICAL** <= 0.2DB

**RETURN LOSS** SMF: UPC>= 50DB, APC>= 60DB
(LC/SC/ST/FC)
MMF: UPC >=30DB (LC/SC/ST/FC)

**INTERCHANGEABILITY** <= 0.2DB

**VIBRATION** <= 0.2DB

**JACKET MATERIAL** PVC/ LSZH / OFNR

**JACKET COLOR**

**CABLE OD** STANDARD 0.9 / 2.0 / 3.0MM

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# ABOUT

Fiber optic pigtail is a fiber optic cable terminated with a factory-installed connector on one end, leaving the other end terminated. Hence the connector side can be linked to equipment and the other side melted with optical fiber cables. High-quality pigtail cables offer the best performance possible for fiber optic cable terminations.

# PIGTAIL
PRODUCTS

# APPLICATION

- Fiber optic pigtail are utilized to terminate fiber optic cables via fusion or mechanical splicing.
- Fiber optic pigtails are usually found in fiber optic management equipment like ODF, fiber terminal box and distribution box.

# STANDARD

ANSI/TIA/EIA 568-C.3
ISO/IEC 11801
IEC 60332 - 1
RoHS Compliance: Directive 2002/95/EC

# PIGTAILS

**CONNECTOR TYPE** SC / ST / LC / FC

**FIBER TYPE** OS2 (9/125UM)
OM1 (62.5/125UM)
OM2, OM3, OM4 (50/125UM)

**NUMBER OF FIBERS** 1F TIGHT JACKETED (SX)

**CABLE DIAMETER (MM)** 0.9 ± 0.05

**JACKET COLOR** CUSTOM

**JACKET MATERIAL** LSZH

**CONNECTOR COLOR** UPC APC MULTI MODE ST, FC

**BEND RADIUS (MIN)** 10D

**CRUSH RESISTANCE** 10N/100MM

**VIBRATION** <= 0.2DB

**CONNECTOR CABLE RETENTION** 3N (0.67 LBS)

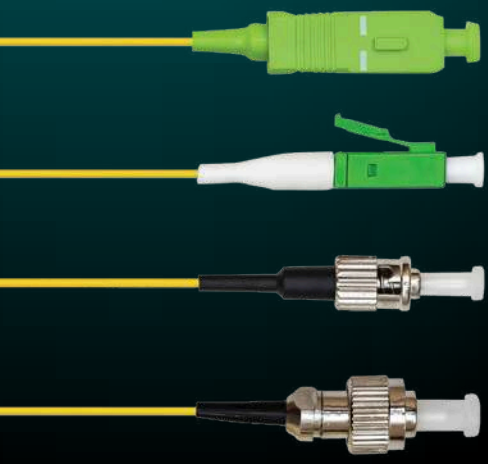
**CONNECTOR FERRULE** CERAMIC

**CONNECTOR REPEATABILITY** <= 0.2DB (1000 TIMES MATING CYCLE)

**COATING STRIP FORCE** <= 13.3N

**STORAGE/INSTALLATION/ OPERATING TEMPERATURE** -20°C TO 70°C

# PIGTAILS



PIGTAIL APC

SC/ LC/FC/ ST

APC Singlemode
9/125 um

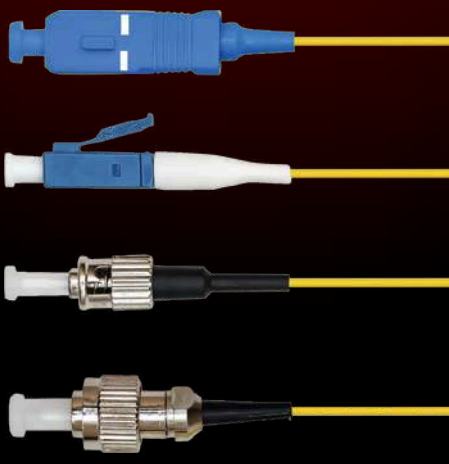
LSZH

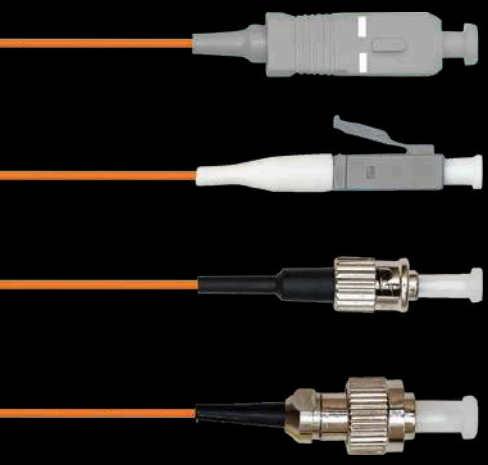
PIGTAIL UPC

SC/ LC/FC/ ST

UPC Singlemode
9/125 um

LSZH





PIGTAIL OM1

SC/ LC/FC/ ST

OM1 Multimode
62.5/125 um

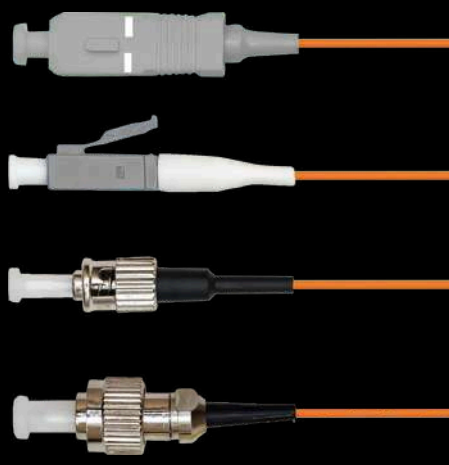
LSZH

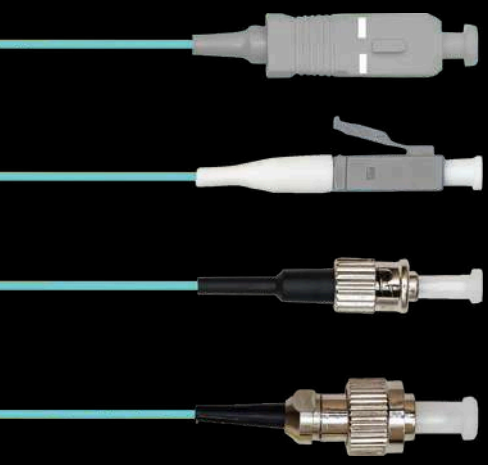
PIGTAIL OM2

SC/ LC/FC/ ST

OM2 Multimode
50/125 um

LSZH





PIGTAIL OM3

SC/ LC/FC/ ST

OM3 Multimode
50/125 um

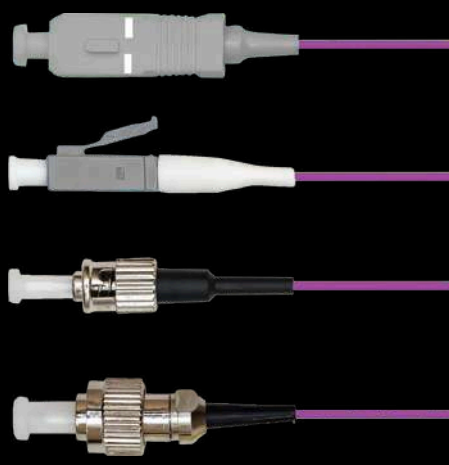
LSZH

PIGTAIL OM4

SC/ LC/FC/ ST

OM4 Multimode
50/125 um

LSZH



# PIGTAILS

## PIGTAIL MULTICOLOR

**CONNECTOR TYPE** SC / ST / LC / FC / MTRJ / MU

**FIBER TYPE** OS2 (9/125UM)
OM1 (62.5/125UM)
OM2, OM3, OM4 (50/125UM)

**BUFFER** TIGHT-BUFFER, SEMI-TIGHT BUFFER OR EASY STRIP/LOOSE TUBE

**CABLE DIAMETER (MM)** 0.9 ± 0.05, 2.0MM, 3.0MM, CUSTOMIZED

**JACKET COLOR** AVAILABLE IN 6 OR 12 COLOR BUNDLES

**JACKET MATERIAL** LSZH

**CONNECTOR COLOR** UPC APC MULTI MODE ST, FC

**BOOTS** SEVERAL BOOT COLORS AND LENGTH

**DUSTCAP** SEVERAL DUSTCAP COLOR AND SHAPE

**VIBRATION** <= 0.2DB

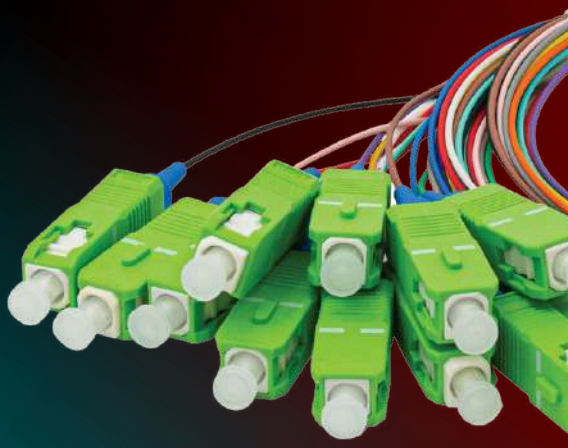
**CONNECTOR CABLE RETENTION** 3N (0.67 LBS)

**CONNECTOR FERRULE** CERAMIC

**CONNECTOR REPEATABILITY** <= 0.2DB (1000 TIMES MATING CYCLE)

**COATING STRIP FORCE** <= 13.3N

**STORAGE/INSTALLATION/ OPERATING TEMPERATURE** -20°C TO 70°C



# ABOUT

Fiber optic patch cord refers to the connecting cables used to connect fiber optic equipment in fiber optic communication systems. It is composed of fiber optic cable and fiber connector that fixed at both ends of optical cable. Customers feel that our fiber optic patch cord is a good product with excellent performance, to prove that our quality of fiber optic patch cord is trustworthy.

# PATCHCORD
PRODUCTS

# APPLICATION

Widely used in various fields such as fiber optic communication systems, fiber optic access networks, fiber optic data transmission, CATV, and local area networks

# STANDARD

ANSI/TIA/EIA 568-C.3
ISO/IEC 11801
IEC 60332 - 1
RoHS Compliance: Directive 2002/95/EC

# PATCHCORD

**CONNECTOR TYPE** SC / LC / FC / ST (END A) | SC / LC / FC / ST (END B)

**FIBER TYPE** OS2 G652D, G657A1, G657A2, G657B3
OM1, OM2, OM3, OM4

**NUMBER OF FIBERS** 1F TIGHT JACKETED (SX), 2F ZIPCORD JACKETED (DX)

**BUFFER DIAMETER (MM)** 0.9 ± 0.05

**CABLE DIAMETER (MM)** 2.0 ± 0.2 (SX), 2.0 X 3.8 ± 0.2 (DX)

**CABLE THICKNESS (MM)** 0.35 ± 0.05

**JACKET COLOR** CUSTOMIZED

**JACKET MATERIAL** LSZH/OFNR

**CONNECTOR COLOR** UPC APC MULTI MODE ST, FC

**BEND RADIUS (MIN)** 20D

**CRUSH RESISTANCE** 10N/100MM

**CONNECTOR CABLE RETENTION** 50N (11.24 LBS)

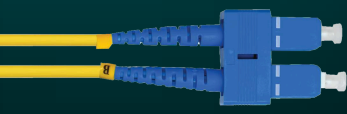
**CONNECTOR FERRULE** CERAMIC

**CONNECTOR REPEATABILITY** <= 0.2DB (1000 TIMES MATING CYCLE)

**STORAGE/INSTALLATION/ OPERATING TEMPERATURE** -20°C TO 70°C

# PATCHCORD

## PATCHCORD UPC

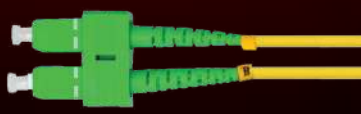


SC/ LC/
FC/ ST

UPC DX
9/125 um

LSZH

## PATCHCORD APC

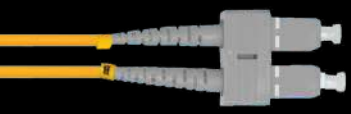


SC/ LC/
FC/ ST

APC DX
9/125 um

LSZH

## PATCHCORD OM1



SC/ LC/
FC/ ST

OM1 DX
62.5/125 um

LSZH

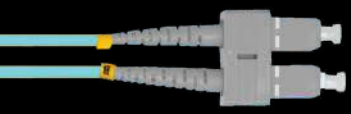
## PATCHCORD OM2

SC/ LC/
FC/ ST

OM2 DX
50/125 um

LSZH

## PATCHCORD OM3

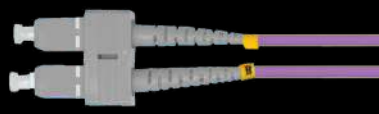


SC/ LC/
FC/ ST

OM3 DX
50/125 um

LSZH

## PATCHCORD OM4



SC/ LC/
FC/ ST

OM4 DX
50/125 um

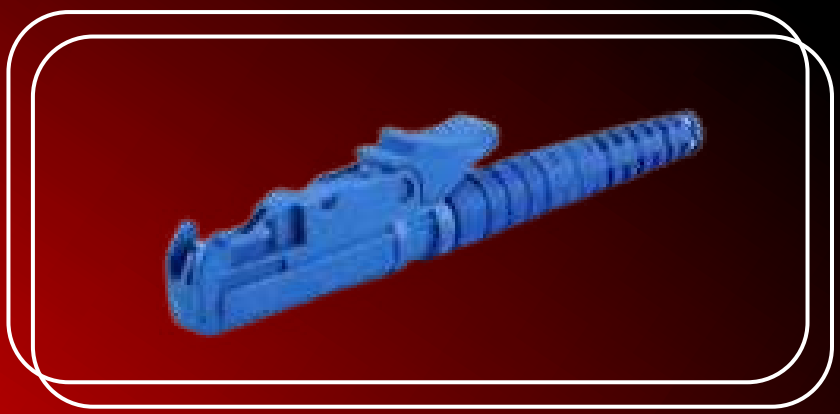
LSZH

# CONNECTORS

## MU/UPC CONNECTOR

## MTRJ/UPC CONNECTOR

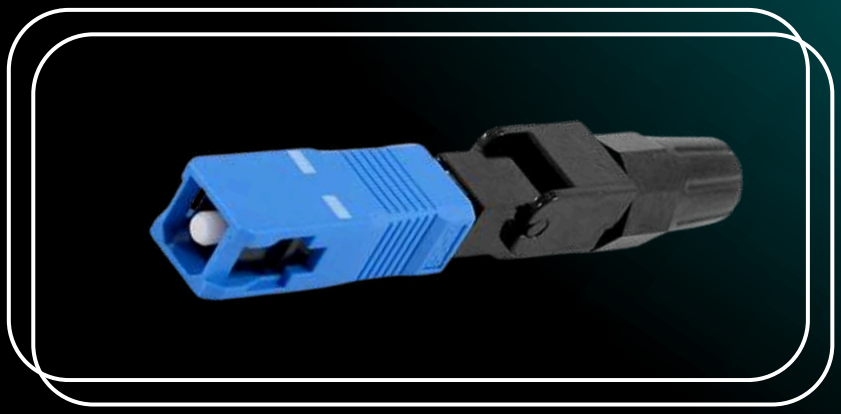
## E2000/UPC CONNECTOR



FAST

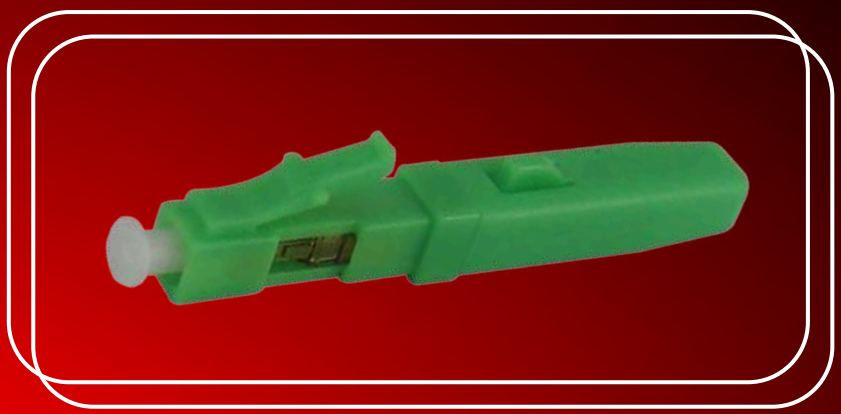
# CONNECTORS

SC UPC



FC UPC

LC APC



**CONNECTOR TYPE**

SC / LC / FC

**OTHER INFORMATION**

NO EPOXY AND NO POLISHING REQUIRED PRE-POLISHED IN UPC AND APC

**DIAMETER**

FOR PIGTAIL CABLE, PATCHCORD CABLE AND DROPCABLE: UPTO 8.0MM DIAMETER

**INSERTION LOSS**

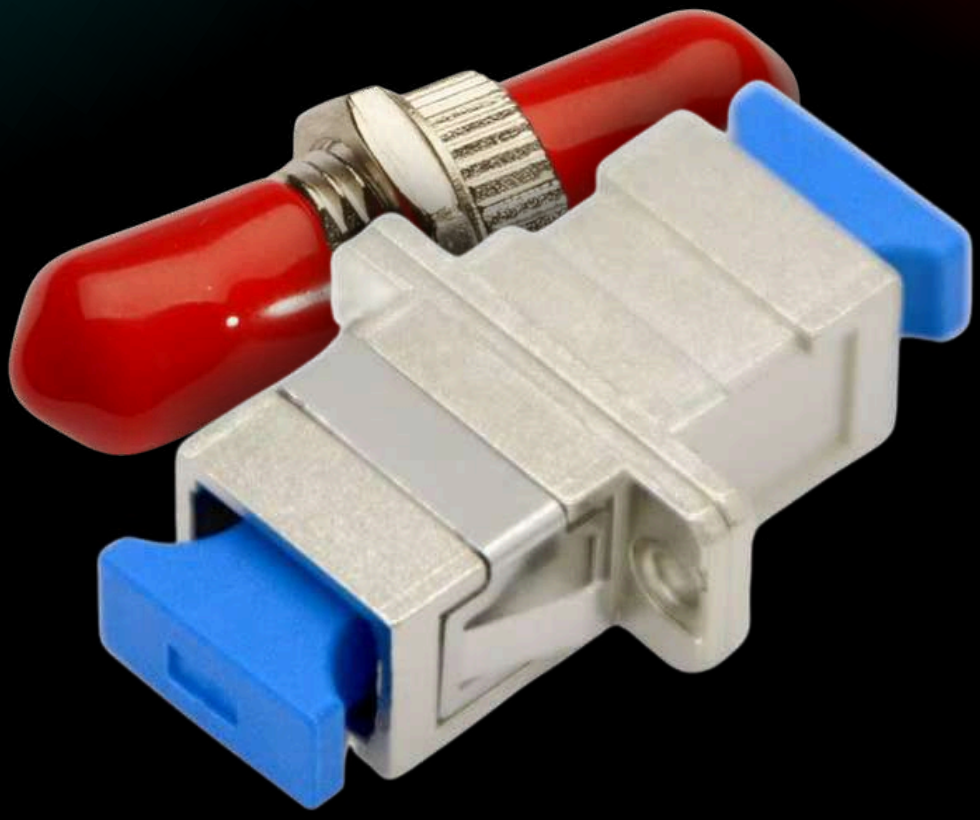
SM <= 0.2DB, MM <=0.3DB

**RETURN LOSS**

SM UPC >= 55.0 DB
SM APC >= 60.0 DB
MM >= 35.0DB

57

# ACCESSORIES



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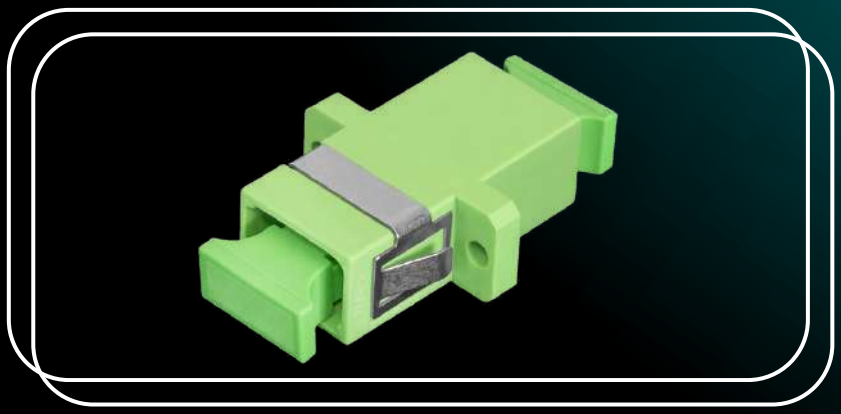
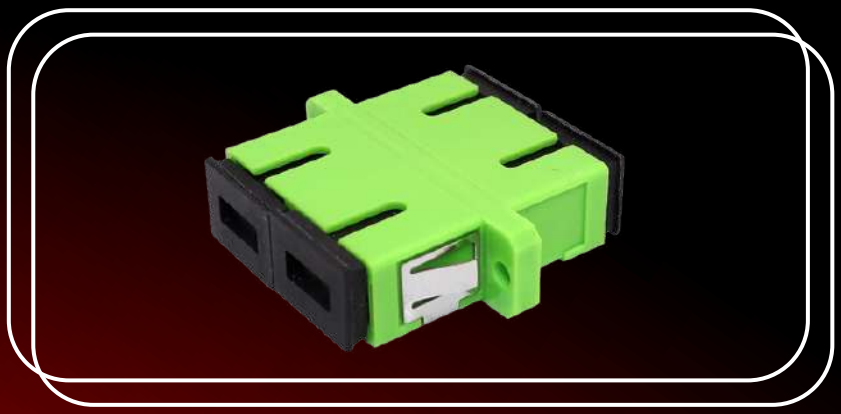
# ADAPTER

SC APC SX ZIRCONIA WITH FLANGE GREEN T-CAP



SC APC DX ZIRCONIA WITH FLANGE BLACK FULL CAP



SC APC SX OUTERSHUTTERDOOR ZIRCONIA FLANGLESS WHITEGREEN

**TYPE**

HYBRID TYPES
FEMALE - FEMALE
FEMALE - MALE

**MODE**

SIMPLEX, DUPLEX, QUADRUPLEX

**MATERIAL**

PLASTIC OR METAL

**FLANGE**

WITH FLANGE OR WITHOUT FLANGE

**HOUSING COLOR**

SEVERAL COLORS AVAILABLE

**DUST CAP COLOR**

SEVERAL COLORS AVAILABLE

**INSERTION LOSS**

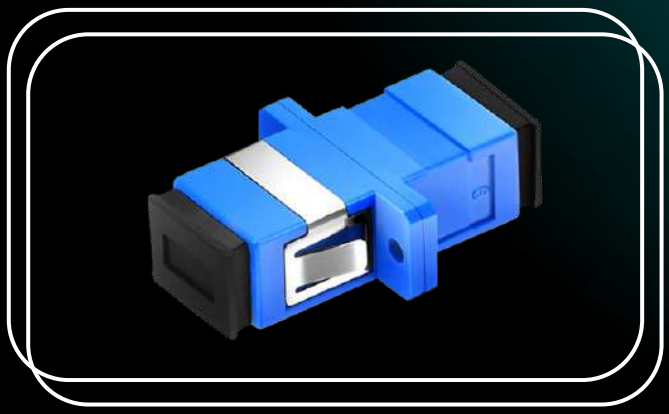
< 0.2 DB

**DURABILITY**

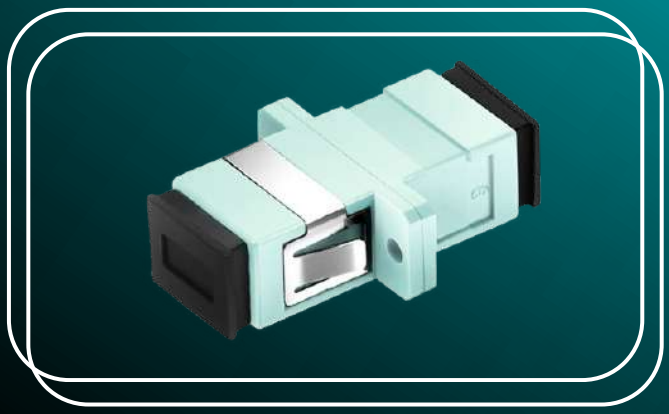
>1000 MATINGS

# ADAPTER

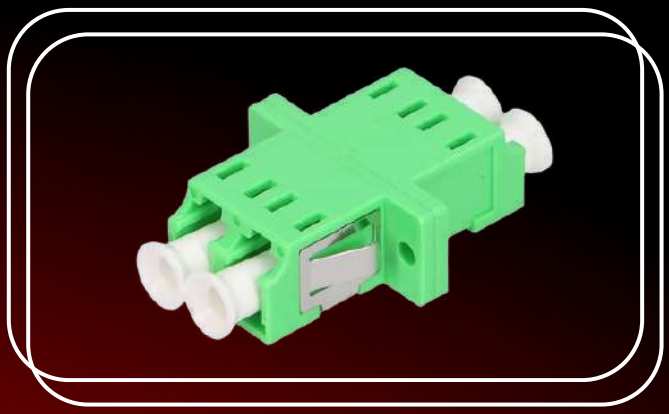
SC UPC SX ZIRCONIA WITH FLANGE BLACK FULL CAP



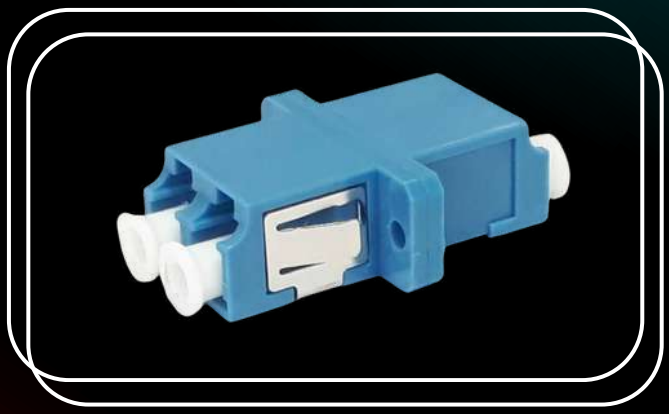
SC OM3 SX ZIRCONIA WITH FLANGE FULL-CAP AQUA



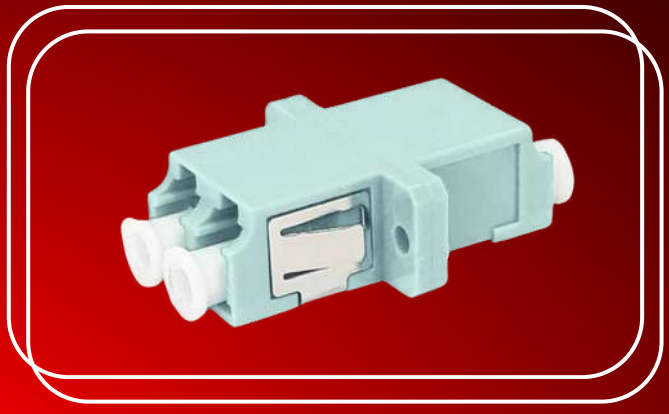
LC APC DX ZIRCONIA WITH FLANGE GREEN



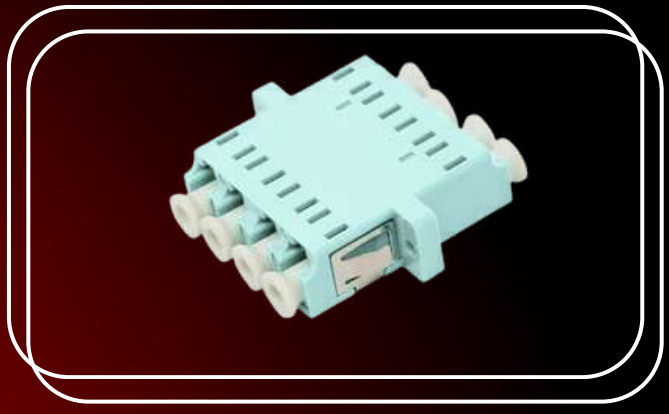
LC UPC DX ZIRCONIA WITH FLANGE BLUE



LC UPC OM3 DX ZIRCONIA WITH FLANGE AQUA



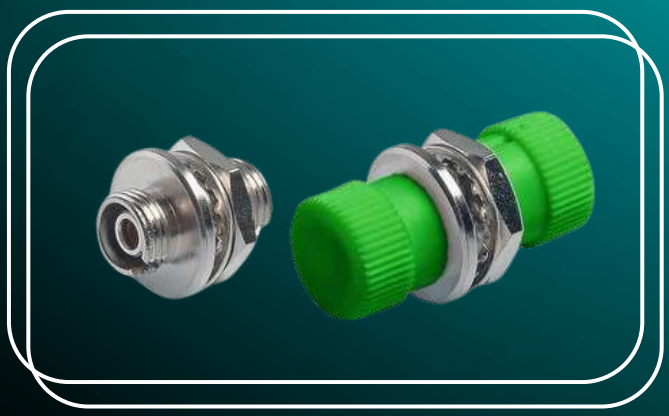
LC/UPC OM3 QUAD ZIRCONIA WITH FLANGE AQUA



# ADAPTER

FC/UPC SMALL D

FC/APC SX BIGD METAL PB GREEN



FC UPC SM SX SQUARE METAL ZIRCONIA RED BOOT

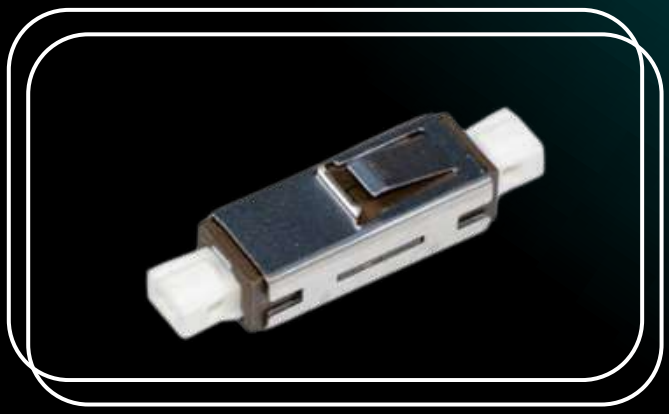
ST/UPC SM SX

ST/UPC MM SX

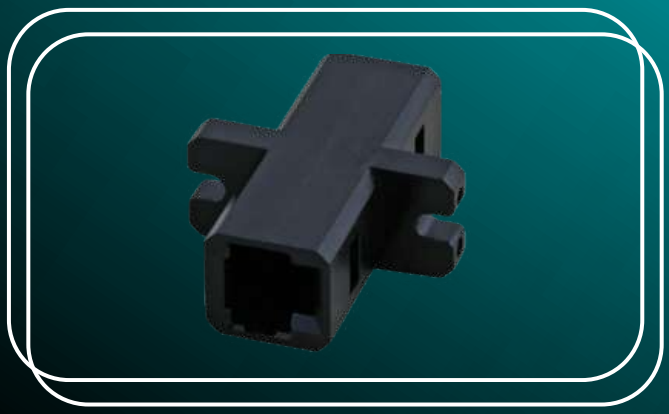
MPO/UPC-MPO/UPC SM BLACK

# ADAPTER

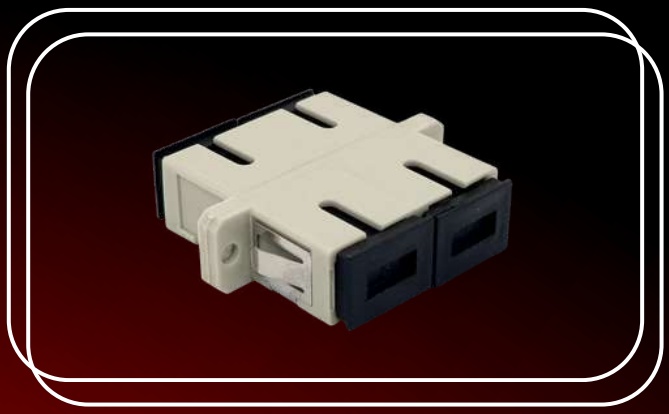
MU/UPC - MU/UPC SM



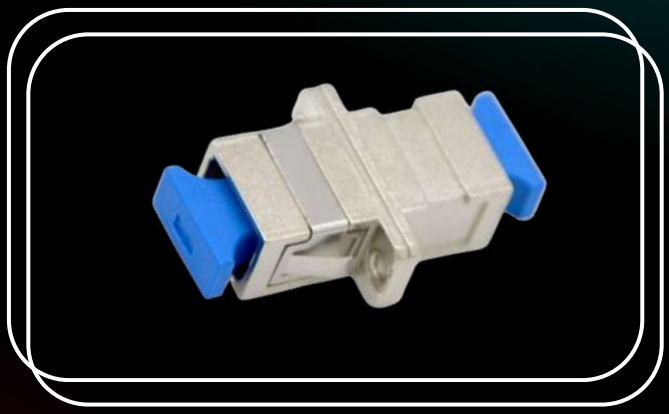
MTRJ/UPC - MTRJ/UPC SM BLACK



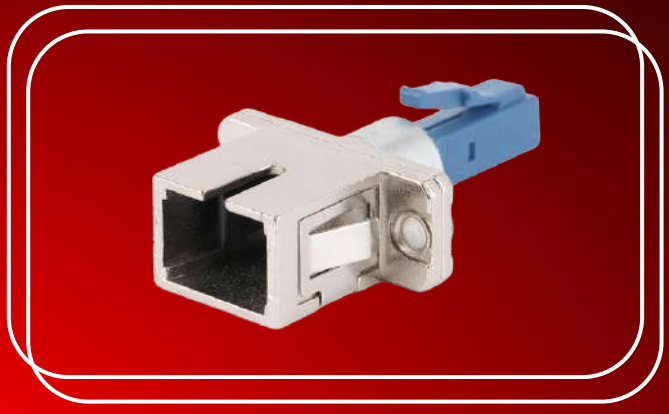
SC/UPC DX MM ZIRCONIA WITH FLANGE BLACK FULL CAP



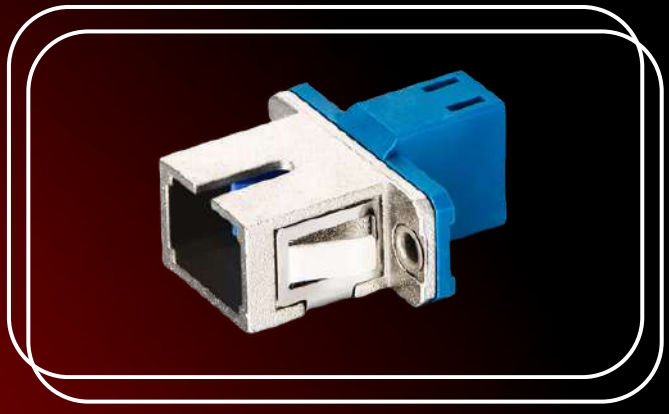
SC/UPC SX METAL ZIRCONIA WITH FLANGE BLUE T - CAP



SC UPC LC UPC SM SX FEMALE - MALE METAL

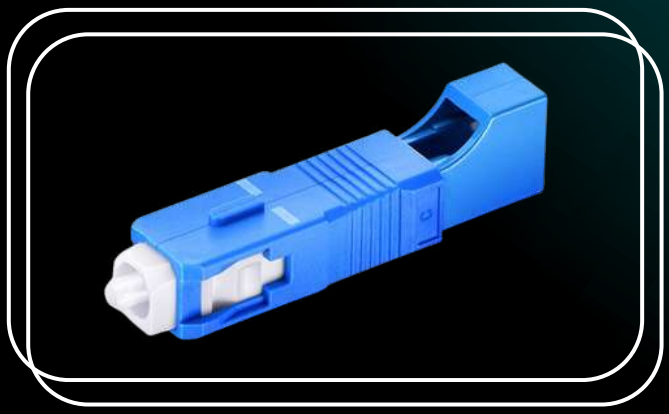


SC UPC - LC UPC SM SX FEMALE - FEMALE METAL

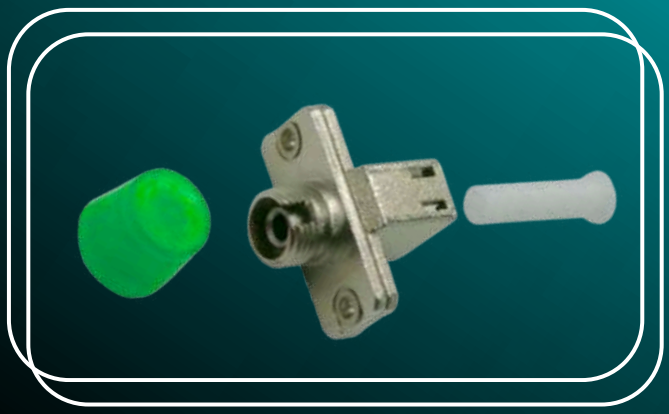


# ADAPTER

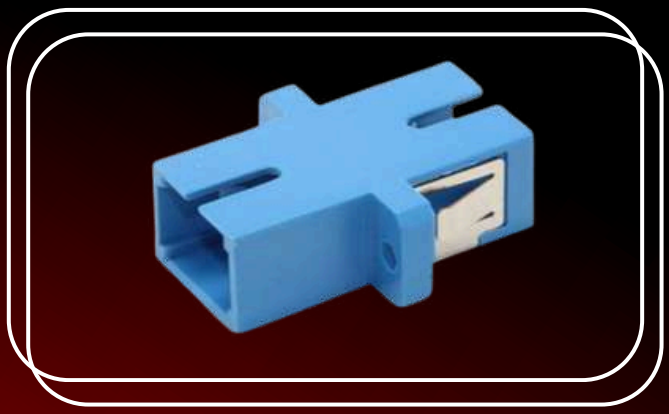
LC UPC - SC UPC SM SX
FEMALE - MALE



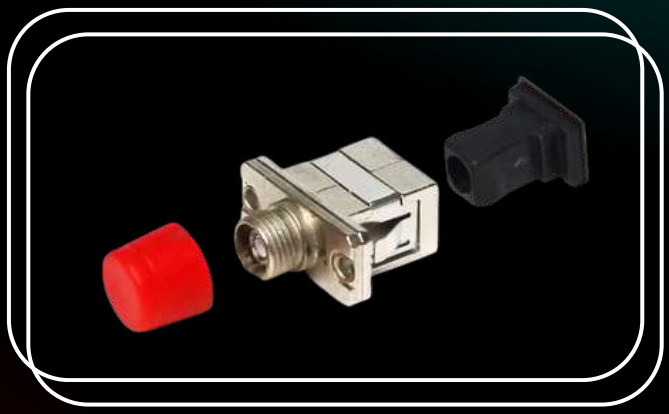
LC UPC - FC APC SM SX
FEMALE - FEMALE METAL



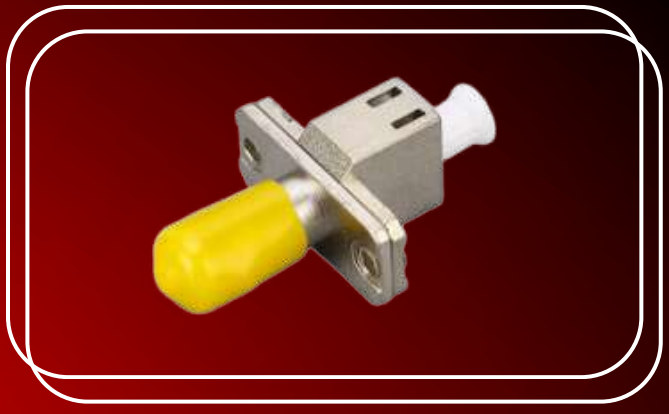
SC/UPC – SC/UPC SM SX
FEMALE - FEMALE



SC/UPC - FC/UPC MM SX
FEMALE - FEMALE

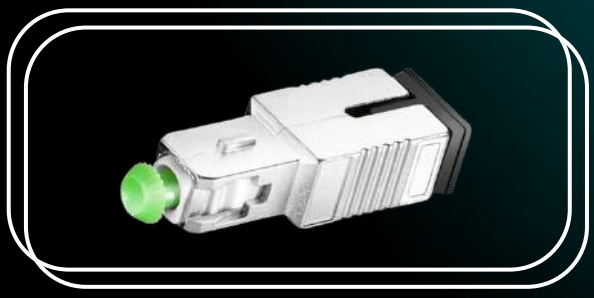


LC UPC - ST UPC SM SX
FEMALE - FEMALE

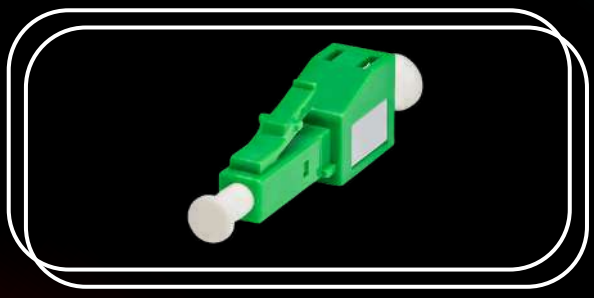


# ATTENUATOR

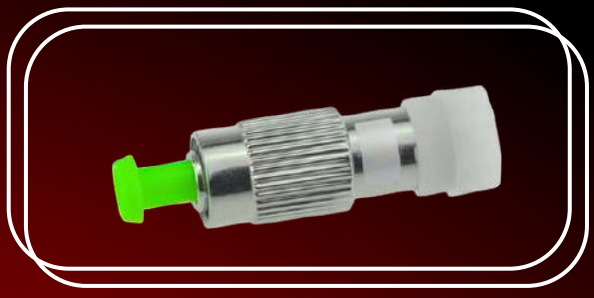
SC APC SM MALE - FEMALE
5DB



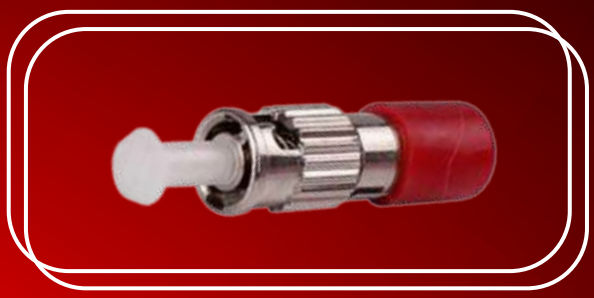
LC APC SM MALE - FEMALE
5DB



FC APC, SM MALE - FEMALE
5DB



ST UPC SM MALE - FEMALE
5DB



**CONNECTOR**

SC, LC, FC, ST, MU

**POLISHING TYPE**

UPC OR APC

**FERRULE**

2.5MM ZIRCONIA CERAMIC FERRULE (SC)
1.25MM ZIRCONIA CERAMIC FERRULE (LC)

**ATTENUATION**

1-20DB

**CONNECTOR STYLE**

METALIC

**ADAPTER STYLE**

PLASTIC

**RETURN LOSS**

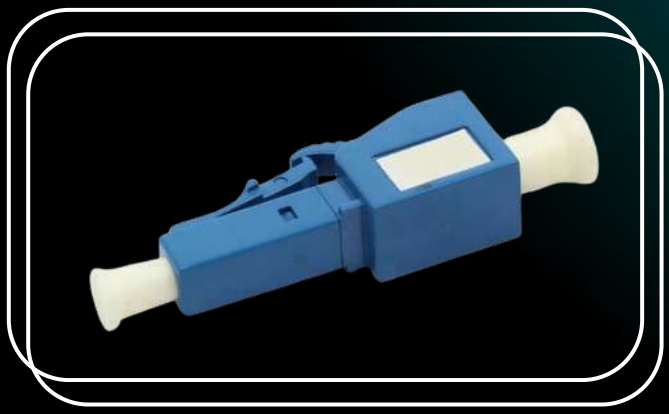
SM UPC >= 50.0 DB
SM APC >= 60.0 DB

**DURABILITY**

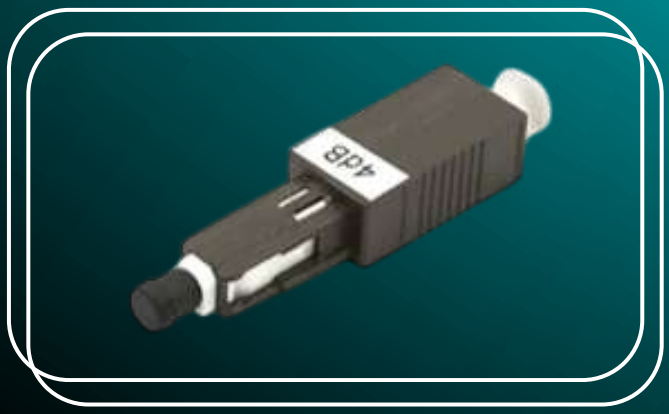
200 CYCLES

# ATTENUATOR

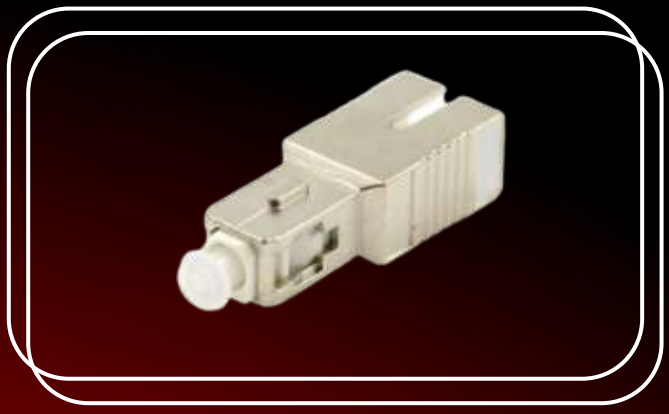
LC UPC SM MALE - FEMALE
5DB



MU UPC SM MALE - FEMALE
10DB




SC UPC SM MALE - FEMALE
5DB



FC UPC SM MALE - FEMALE
5DB

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# VIETFIBER

CONNECTING THE FUTURE WITH YOU

LOT K02 LONG HAU STREET, LONG HAU IP, CAN GIUOC, LONG AN, VN

VIETFIBER.VN