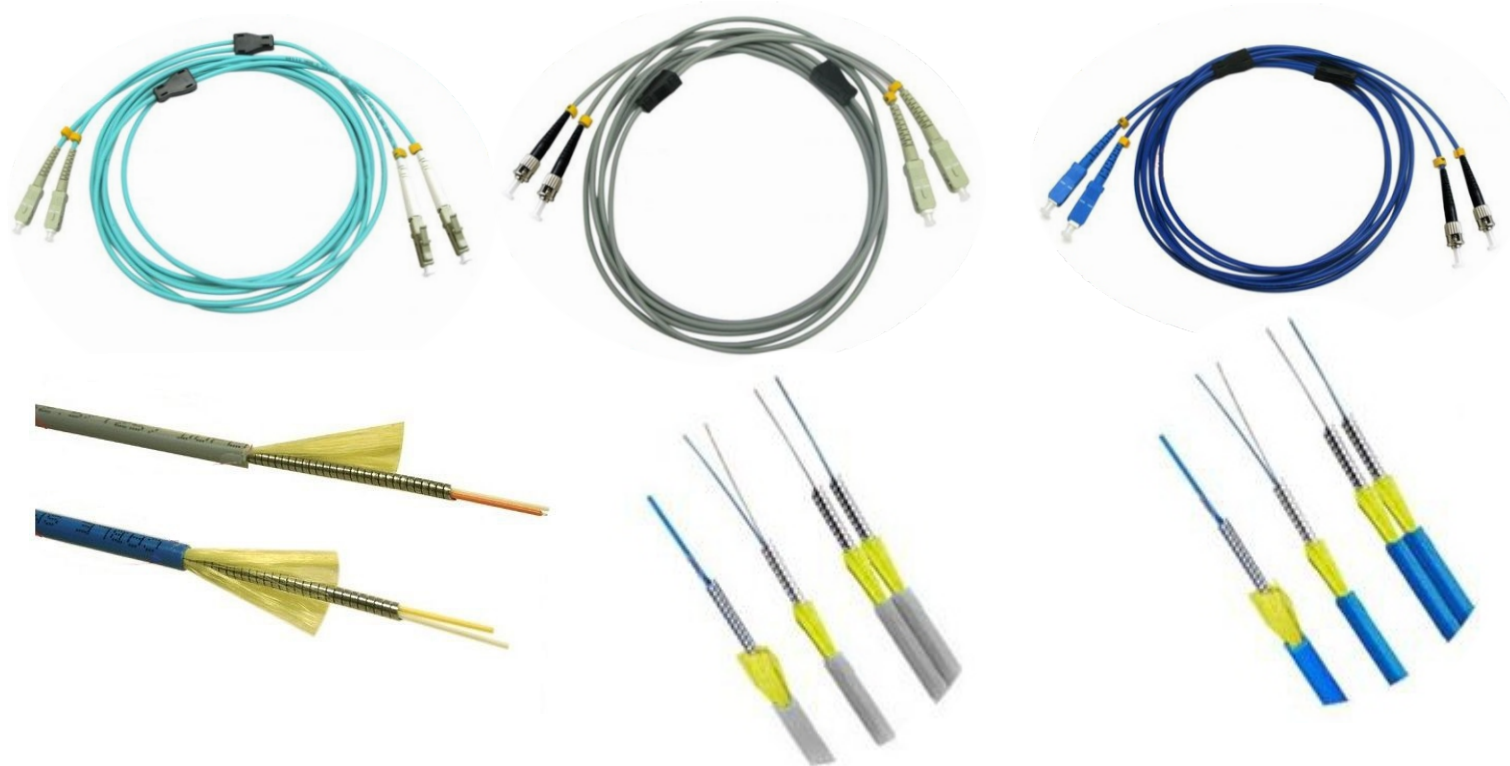




## Description

Iveonet™ provides an extensive line of high performance armored fiber assemblies. Iveonet™ armored patch cords are used in customer premises, central offices and in harsh environments. The patch cords provide flexible interconnection to active equipment, passive optical devices and cross-connects.

Armored patch cords are constructed with a helical stainless steel tape over a buffered fibre surrounded by a layer of aramid and stainless steel mesh with an outer jacket. This will help make the armored fiber patch cord resistant of high tension and pressure, it can resist the weight of an adult person, and it is not easy to break when bent or dragged. The inside armor can protect the whole cable from rodent. All Iveonet™ armored fiber optic patch cable (IAFPC) are fully inter-matable with any standard coupling adapter products and deliver high stability under a range of application conditions.

## Features:

- ♦ ISO certified laboratory
- ♦ 100% factory tested on optical performance
- ♦ Rugged Construction
- ♦ Factory Polished
- ♦ Protection from Rodent
- ♦ Available in Single mode OS1 (9/125) and OS2
- ♦ Available in Multimode OM1, OM2, OM3 and OM4 (62.5/125, 50/125)
- ♦ Compliant with RoHS
- ♦ Cable outer jacket available in OFNR / (LSZH)
- ♦ Customer specified length

## Mechanical Characteristics

|                               |                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------|
| Cable O.D.                    | 3.0mm +/- 0.1mm                                                                               |
|                               | 3.3mm +/- 0.2mm                                                                               |
| Buffer Diameter               | 600μ                                                                                          |
| Primary Coating               | 245μ                                                                                          |
| Strength Member               | steel tube protection, aramid yarn and reinforcing steel-wire braiding flame-retardant jacket |
| Jacket Material               | LSOH / LSZH / PVC                                                                             |
| Bending Radius - Dynamic (CM) | 20 x D (D: Simplex Cable Diameter)                                                            |
| Bending Radius - Static (CM)  | 10 x D (D: Simplex Cable Diameter)                                                            |
| Max Load (N) - Long Term      | 100                                                                                           |
| Max Load (N) - Short Term     | 200                                                                                           |
| Long Term Bend Radius         | 2.0cm                                                                                         |
| Operating Temperature         | -20°C to +60°C                                                                                |

## Multi mode Fiber Patch Cords

| Designation | Core OD (um) | Cladding OD (um) | Attenuation @ 850nm (dB/km) | Attenuation @ 1300nm (dB/km) | Min Bandwidth @ 850nm (Mhz/km) | Min Bandwidth @ 1300nm (Mhz/km) |
|-------------|--------------|------------------|-----------------------------|------------------------------|--------------------------------|---------------------------------|
| OM1         | 62.5         | 125 ± 1          | 3.5                         | 1.0                          | 160                            | 500                             |
| OM2         | 50           | 125 ± 1          | 3.5                         | 1.5                          | 400                            | 400                             |

## Single mode Fiber Patch Cords

| Designation | Cladding OD (um) | Core OD (um)           | Max Attenuation                      | Cut Off Wave Length | Max Dispersion @ 1310nm | Max Dispersion @ 1550nm | Zero Disp Wave |
|-------------|------------------|------------------------|--------------------------------------|---------------------|-------------------------|-------------------------|----------------|
| OS1 / OS2   | 125 ± 0.7        | 9.0 μ ± 0.4 μ @ 1310nm | 0.4dB/Km over range 1310nm to 1625nm | 1260nm max          | 3.2 psec/nm-km          | 18 psec/nm-km           | 1300-1324nm    |

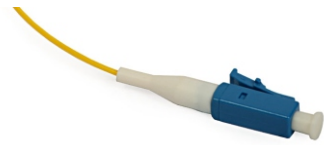
## Optical Performance

| MM (1300nm)              |          |        |              |       |       |
|--------------------------|----------|--------|--------------|-------|-------|
|                          | FC       | SC     | LC           | ST    | MTRJ  |
| Insertion Loss           | 0.30     | 0.30   | 0.30         | 0.30  | 0.5   |
| Return Loss              | N/A      | N/A    | N/A          | N/A   | N/A   |
| SM (1300nm & 1550nm)     |          |        |              |       |       |
|                          | FC       | SC     | LC           | ST    | MTRJ  |
| Insertion Loss           | 0.30     | 0.30   | 0.30         | 0.30  | 0.5   |
| Return Loss              | -50.0    | -50.0  | -50.0        | -50.0 | -30.0 |
| SM APC (1300nm & 1550nm) |          |        |              |       |       |
|                          | FC       | SC     | LC           | ST    |       |
| Insertion Loss           | 0.30     | 0.30   | 0.30         | 0.30  |       |
| Return Loss              | -60.0    | -60.0  | -60.0        | -60.0 |       |
| Cable Color              |          |        |              |       |       |
| OS1 / OS2                | OM1      | OM2    | OM3          |       |       |
| 9/125                    | 62.5/125 | 50/125 | 50/125 10Gig |       |       |
| Yellow                   | Orange   | Grey   | Aqua         |       |       |



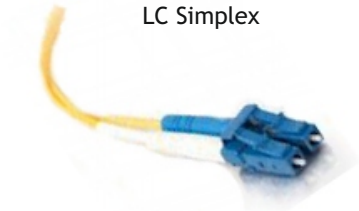
# Armored Fiber Optic Patch Cable

## Ordering Information

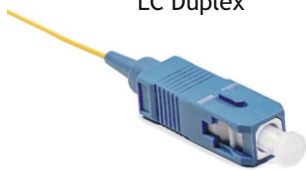


LC Simplex

| CONNECTOR 1 |  | CONNECTOR 2 |  | FIBER TYPE |  | CABLE TYPE |  | CABLE LENGTH |  |
|-------------|--|-------------|--|------------|--|------------|--|--------------|--|
| IAFPC -     |  |             |  |            |  |            |  |              |  |



LC Duplex



SC Connector

| CONNECTOR 1 |    | CONNECTOR 2 |    | FIBER TYPE |          | CABLE TYPE |         | CABLE LENGTH |    |
|-------------|----|-------------|----|------------|----------|------------|---------|--------------|----|
| LC          | MT | LC          | MT | OS1        | 9/125    | SX         | SIMPLEX | 03           | 20 |
| ST          | SC | MT          | ST | OM1        | 62.5/125 | DX         | DUPLEX  | 05           | 30 |
| SC          | FC | ST          | SC | OM2        | 50/125   |            |         | 10           | 50 |
|             |    | FC          | FC | OM3        | 50/125   |            |         | 15           | 90 |
|             |    |             |    | OM4        | 50/125   |            |         |              |    |



ST Connector

### PART NUMBER ORDERING EXAMPLE:

| CONNECTOR 1 |   | CONNECTOR 2 |   | FIBER TYPE |   | CABLE TYPE |    | CABLE LENGTH |   |   |   |   |   |   |
|-------------|---|-------------|---|------------|---|------------|----|--------------|---|---|---|---|---|---|
| IAFPC -     | L | C           | - | L          | C | -          | OS | 1            | - | D | X | - | 0 | 3 |

Which Represents: IAFPC-LC-LC-OS1-DX-03

IVEONET Armored Fiber Optic Patch Cord with LC-LC Connector - 9/125 Single Mode - Duplex  
Length: 03 Mtrs

For APC Connectors:  
LC-A : LC APC Connector



MTRJ Connector



FC Connector

Iveonet™ Products are now part of Nivox Technologies



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