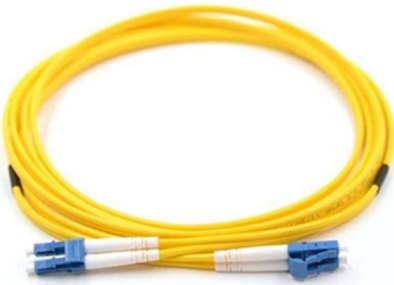


## Single Mode (OS2) Fiber Optic Patch Cords- Bend Insensitive

These Patch cords are made of tight buffered fiber cores having Aramid Yarn as protection below the outer jacket. Construction made of LSZH (low smoke zero halogen) thermoplastic Jacket. Patch cord assemblies are available in OS2 Single Mode (G657-A1) with multiple types of End Connector Offering.

The fiber cores are bend insensitive and connected with ceramic ferrule to provide ultra-low insertion and return loss. All Patch cords are 100% optically inspected and tested individually. Insertion loss and return loss values are available with every patch cord.



### Standards

- ANSI/TIA-568.3-E
- ISO/IEC 11801
- TIA 604 FOCIS X
- IEC 61300-3-4
- IEC 61300-3-6
- IEC 60874-1

### Construction

|                                  |                                                                                      |
|----------------------------------|--------------------------------------------------------------------------------------|
| Core/Clad Diameter (µm)          | 9/125                                                                                |
| Coating Diameter (µm)            | 250±15                                                                               |
| Tight Buffer Diameter (µm)       | 600±50 (for 1.80mm OD)<br>900±50 (for 3.00mm OD)                                     |
| Jacket                           | Low Smoke Zero Halogen                                                               |
| Jacket Diameter                  | 1.80mm± 0.10mm, 3.00mm ± 0.15mm (Simplex)<br>2.00mm± 0.20mm, 3.00mm± 0.30mm (Duplex) |
| Colour of Jacket                 | Yellow                                                                               |
| Strength Member                  | Aramid Yarn                                                                          |
| Connector Housing Colour         | Blue                                                                                 |
| Boot Colour                      | White                                                                                |
| Ferrule                          | Ceramic                                                                              |
| Polishing                        | UPC                                                                                  |
| Connector Housing & Boot Housing | Polycarbonate UL94V-0                                                                |
| Cable Retention Force            | 20N                                                                                  |

### Transmission Data

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Fiber Type                             | Single Mode (OS2) 9/125, G657-A1 |
| Operating wavelength range (nm)        | 1310/1550                        |
| Insertion Loss (dB)                    | ≤ 0.3                            |
| Return Loss (Back Reflection) (dB)     | ≥ 50                             |
| Mating Durability for 1000 Cycles (dB) | ≤ 0.2                            |
| Repeatability (dB)                     | ≤ 0.1                            |

### Environmental

|                       |               |
|-----------------------|---------------|
| Transport and Storage | -20° to 75°C  |
| Installation          | 4° to 50°C    |
| Operation             | -20° to 75°C  |
| Humidity              | 10% to 90% RH |

### Compliances

|               |             |
|---------------|-------------|
| Flammability  | IEC 60332-1 |
| Smoke density | IEC 61034   |
| Acid gas      | IEC 60754-1 |

### How to Order

| Description                                            | Product Code |
|--------------------------------------------------------|--------------|
| Fiber Optic LSZH Patch cord, 2mm Duplex, OS2 (G657-A1) | 6419EF-1YYY  |

E, F denotes Type of Connector (E≤F): 0 = SC, 2 = LC, 4 = ST, 5=FC

YYY Denotes Length in Meters

| Type (EF)<br>Length (YYY) | 2mtr (002)  | 3mtr (003)  | 5mtr (005)  | 15mtr (015) |
|---------------------------|-------------|-------------|-------------|-------------|
| LC-LC                     | 641922-1002 | 641922-1003 | 641922-1005 | 641922-1015 |
| SC-LC                     | 641902-1002 | 641902-1003 | 641902-1005 | 641902-1015 |
| SC-SC                     | 641900-1002 | 641900-1003 | 641900-1005 | 641900-1015 |
| SC-ST                     | 641904-1002 | 641904-1003 | 641904-1005 | 641904-1015 |
| LC-ST                     | 641924-1002 | 641924-1003 | 641924-1005 | 641924-1015 |
| ST-ST                     | 641944-1002 | 641944-1003 | 641944-1005 | 641944-1015 |

Other Lengths and Types are available upon request.