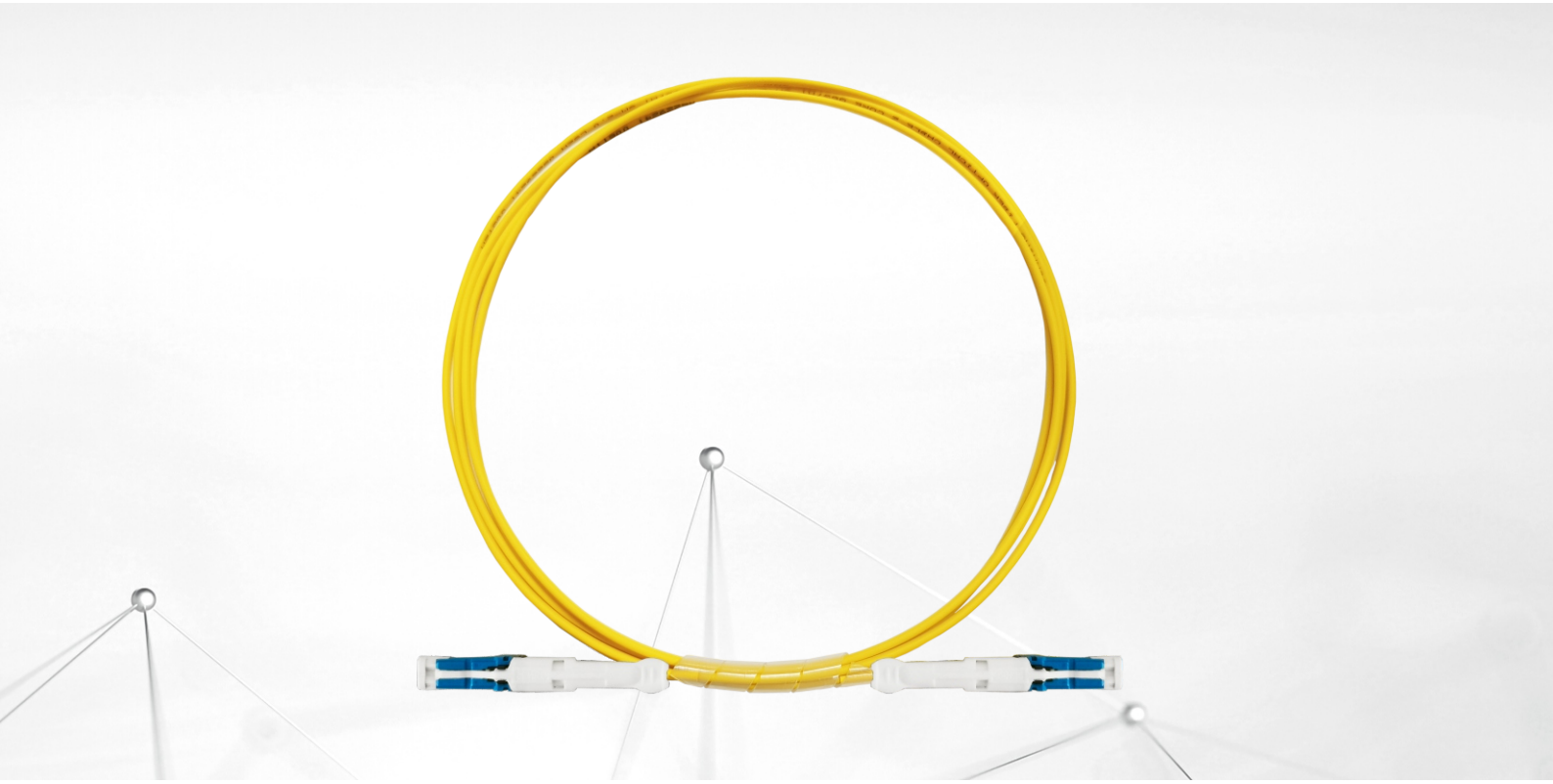
# CS Fiber Patch Cables Datasheet



## Standards Compliance

- Meets IEC random mating Grade B
- RoHS and REACH

## Features

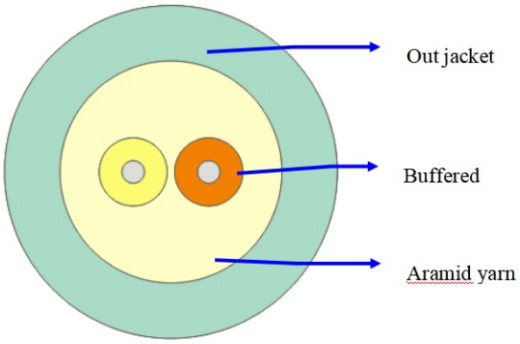
- Low Insertion Loss / High Return Loss Connector
- Polishing Type: UPC, APC
- Factory pre-terminated, 100% tested
- Duplex design utilizes a unique push-pull tab for simple installation and removal
- Optional fiber types: G657.A1, G657.A2, OM3, OM4, OM5
- Ultra Small Form Factor (VSFF) connector, wiring density 2 times higher than LC duplex

# Technical Specification

| ITEM | Description |
|---|---|
| Fiber Count | Duplex |
| Connector Type | CS Connector |
| Polish Type | Single Mode: UPC;APC<br>Multimode: UPC |
| Connector Ferrule | Zirconia Ceramic Ferrule |
| Cable Diameter | 2.0/3.0mm |
| Fiber Mode | Single Mode: G657.A1/G657.A2<br>Multimode: OM3/OM4/OM5 |
| Cable Jacket | PVC/LSZH |
| Cable Jacket Color | SM: Yellow<br>MM: Aqua:(OM3); Violet:(OM4); Lime Green:(OM5) |
| Connector Durability | 500 mating cycles |

| ITEM | Description |
|---|---|
| Insertion Loss | Standard Loss: (SM/APC:≤0.25dB; SM/UPC:≤0.2dB;)<br>Low Loss: (SM/APC/UPC:≤0.15dB; MMUPC:≤0.15dB) |
| Return Loss | SM/APC:≥65dB; SM/UPC:≥55dB<br>MM/UPC:≥25dB |
| Wavelength | SM: 1310/1550nm<br>MM: 850/1300nm |
| Operating Temperature | -40~75°C |

# Cable Technical Specification

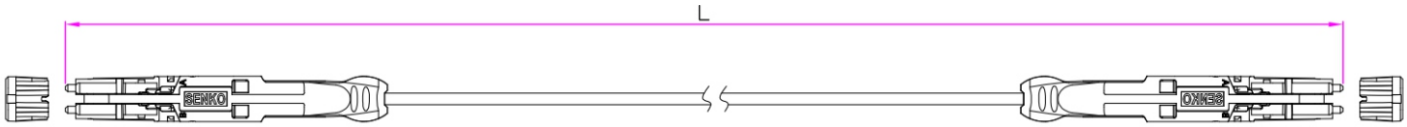



Duplex single tube, 2.0/3.0mm

| ITEM | Description |
|---|---|
| Fiber Minimum Bend Radius | SM: 10mm(G657.A1); 7.5mm(G657.A2)<br>MM:7.5mm(OM3/OM4/OM5) |
| Cable Minimum Bend Radius | Dynamic:20D<br>Static:10D |
| Attenuation(dB/km) | SM: ⩽0.5 at 1310nm, ⩽0.4 at 1550nm<br>OM3/OM4/OM5:⩽3.5 at 850nm, ⩽1.5 at 1300 |
| OFL Bandwidth (MHz*km) | OM3: ⩾1500 at 850nm, ⩾500 at 1300nm<br>OM4: ⩾3500 at 850nm, ⩾500 at 1300nm<br>OM5: ⩾3500 at 850nm, ⩾500 at 1300nm |

| Cables | Nominal Weight | Max.Tensile Strength | | Max.Crush Resistance | |
|---|---|---|---|---|---|
| | | Short-Term | Long-Term | Short-Term | Long-Term |
| 2.0mm Duplex Single Tube | 5.0kg/km | 75N | 35N | 200N/100mm | 50N/100mm |
| 3.0mm Duplex Single Tube | 7.8kg/km | 100N | 50N | 500N/100mm | 100N/100mm |

## Technical Drawing




## Length Tolerances

| Length | Tolerances |
|---|---|
| L<1m | +50mm/-0 |
| 1m<L⩽10m | +100mm/-0 |
| 10m<L⩽20m | +200mm/-0 |
| L>20m | +1%/-0 |

## Ordering Information

| CS/UPC | - | CS/UPC | - | OM3 | - | DX | - | 2.0 | - | 1.5M | - | LSZH | - | Aqua |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | | 8 |

**1-Connector A**: CS/UPC; CS/APC;
**2-Connector B**: CS/UPC; CS/APC;
**3-Fiber Type**: OM3; OM4; OM5; G657.A1; G657.A2; etc;
**4-Fiber Count**: DX:Duplex;
**5-Cable Diameter**: 2.0:2.0mm; 3.0:3.0mm;
**6-Cable Length**: 1.5M; etc;
**7-Cable Jacket Ratings**: LSZH; PVC;
**8-Cable Color**: Yellow:(G657.A1/G657.A2); Aqua:(OM3); Violet:(OM4); Lime Green:(OM5);

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