



## OPTICAL PATCH CORD DUPLEX

Description	Optical Patch Cord is a duplex fiber cord with optical connectors on both sides.		
Application	Support for background requirements of IEEE 802.3, ANSI T11.2 (Fibre Channel) standard and ITU-T-G-984.		
Advantage	<ul style="list-style-type: none"> <li>• Recommended for indoor use only, interconnecting optical distributors frames with networking equipments, in optical systems with low loss and high bandwidth, as: high distance systems, backbone networks, video and data transmission and distribution;</li> <li>• Exceeds performance requirements of ANSI/TIA-568.3-D standard;</li> <li>• 100% assembled and tested on factory;</li> <li>• High performance in insertion loss and return loss;</li> <li>• Available for single-mode and multimode optical fiber.</li> </ul>		
Installation Environment	Indoor		
Operation Environment	Non Aggressive		
Operation Temperature (°C)	From -25°C to 75°C		
Nominal Diameter (mm)	2,0mm		
Length	1.0m, 1.5m, 2.0m, 2.5m, 3.0m, 5.0m, 8.0 m, 10.0 m, 12.0m, 15.0m, 20.0 m, 25.0m, 30.0m, 35.0m, 40.0m, 50.0m and 100.0m. * Additional lengths available upon request.		
Color	<b>Fibra</b>	<b>TIA 568 - C</b>	<b>ABNT</b>
	Single-mode (G-657A2)	White or Yellow	White or Blue
	Multimode OM1 (62,5 µm)	Orange	Orange
	Multimode OM2 (50µm)	Orange	Yellow
	Multimode OM3 and OM4 (50µm)	Aqua	Aqua
Cable Type	<b>Duplex Tight Patch Cord:</b> zipcord,totally dielectric, consists of two multimode or single-mode optical fibers coated with acrylate resin and a secondary coating of thermoplastic material (tight buffer). Dielectric strength members and a thermoplastic flame-retardant outer jacket surround both tight buffered fibers.		

#### Connector Type

- LC
- SC
- ST
- FC

**\*\*For more information, please consult ET03770 - Performance of Optical Connectors**

#### Fiber Type

- Single-mode G.657-A2 (9.0  $\mu\text{m}$ )
- Multimode OM1 (62.5  $\mu\text{m}$ )
- Multimode OM2 (50.0  $\mu\text{m}$ )
- Multimode OM3 (50.0  $\mu\text{m}$ )
- Multimode OM4 (50.0  $\mu\text{m}$ )

#### Polishing Type

- PC (UPC) - Single-mode and multimode fibers
- APC - Single-mode fibers

Cable Flammability Rating LSZH - Low Smoke and Zero Halogen

Maximum Statical Load (N) 100 N

Bend Radius (mm) SM BLI G.657-A2 Fiber: 15mm  
SM G.652 Fibers: 50mm  
MM Fibers: 60mm

Quantity of insertion cycles > 500 cycles

Tensile Strength > 100 N

Rupture Minimum Tensile (N) 400 N - Duplex optical patch cord

Marking	<p>Duplex Cord:  <b>"FURUKAWA COA - V - DP - Y - Z W DUPLEX OPTICAL CORD month/year LOTE nL YAAMMDDHHmm"</b></p> <p>where:</p> <p><b>V = type of optical fiber</b></p> <ul style="list-style-type: none"> <li>- SM (single-mode fiber)</li> <li>- BLI-A/B (fiber "bending loss insensitive")</li> <li>- NZD (Non-Zero Dispersion)</li> <li>- MM (multimode fiber)</li> </ul> <p><b>Y = Cord diameter</b></p> <ul style="list-style-type: none"> <li>18 Cord with 1.8mm diameter</li> <li>20 Cord with 2.0mm diameter</li> <li>29 Cord with 2.9mm diameter</li> </ul> <p><b>Z = flame retardance rate</b></p> <p><b>W = detail of the optical fiber type</b></p> <p>FTTA</p> <p><b>month / Year = date of manufacture</b></p> <p><b>nL = batch number of manufacture</b></p> <p><b>YAAMMDDHHmm = Traceability</b></p> <p><b>(Y - Extruder case; AA - Year; MM - Month; DD - Day; HH - hour; mm - Minute)</b></p>
Minimum Order Quantity	1 box, for the standard Length described on length field
Compatibility	All FCS product line.
Quantity per gift box	<ul style="list-style-type: none"> <li>• Up to 3.0m: 15 pieces/box</li> <li>• 5.0m: 12 pieces/box</li> <li>• 8.0m: 8 pieces/box</li> <li>• 10.0m: 6 pieces/box</li> <li>• 12.0 and 15.0m: 4 pieces/box</li> <li>• 20.0 and 25.0m: 3 pieces/box</li> <li>• 30.0 and 35.0m: 2 pieces/box</li> <li>• 40.0 and 50.0m: 1 piece/box</li> <li>• 100.0m: 3 pieces/box</li> </ul> <p>Note:standard supply for 2.0mm diameter cords</p>
Warranty	12 months
Certifications	<p>ANATEL</p> <p>LC-PC 1344-06-0256</p> <p>LC-APC 0583-08-0256</p> <p>SC-PC 1365-06-0256</p> <p>SC-APC 0483-02-0256</p> <p>FC-PC 1366-06-0256</p> <p>FC-APC 0485-02-0256</p> <p>ST-PC 0484-02-0256</p> <p>E2000-APC 0482-02-0256</p>

Standard	<p>ISO 8877 - Information Technology - Telecommunications and information exchange between systems - Interface connector and contact assignments for ISDN basic access interface located at reference points S and T</p> <p>ANSI/TIA-568.1-D - Comercial Building Telecommunications Cabling Standard - General Requirements</p> <p>ANSI/TIA-568.3-D - Optical Fiber Cabling Components Standard</p> <p>ANSI/ICEA S-83-596 Standard for Indoor Optical Fiber Cable</p> <p>IEC 60332-3 Test on Electric Cables Under Fire Conditions</p> <p>IEC 60754-2 Acidity of Smoke</p> <p>IEC 61034-2 Measurement of smoke density of cables burning under defined conditions</p> <p>ISO/IEC 11.801 Ed.02 - Generic Cabling for Customer Premises</p> <p>TIA-604-10 - FOCIS10 Fiber Optic Connector Intermateability Standardar - Type LC</p> <p>TIA-604-3 - FOCIS3 Fiber Optic Connector Intermateability Standardar - Type SC</p> <p>ITU-T G.657 Characteristics of a bending-loss insensitive single-mode optical fibre and cable</p> <p>ITU-T G.651 Characteristics of a 50/125 mm multimode graded index optical fibre cable</p> <p>ABNT NBR 14106 - Optical fiber cords - Specification</p> <p>ABNT NBR 14433 - Mounted connectors for optical medias and adaptors — Specification</p> <p>ABNT NBR 14565 - Structured cabling for commercial buildings</p> <p>ABNT NBR 14771 - Indoor optical fibers cables - Specification</p>
RoHS	<p>This product is in accordance with the RoHS European Directive: a directive on the restriction of the use of certain hazardous substances and related to the environmental preservation</p>

[Part Numbers](#)