



## OPTICAL PATCH CORD DUPLEX

<b>Description</b>	Optical Patch Cord is a duplex fiber cord with optical connectors on both sides.																	
<b>Application</b>	Support for background requirements of IEEE 802.3, ANSI T11.2 (Fibre Channel) standard and ITU-T-G-984.																	
<b>Advantage</b>	<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>																	
<b>Installation Environment</b>	Indoor																	
<b>Operation Environment</b>	Non Aggressive																	
<b>Operation Temperature (°C)</b>	From -25°C to 75°C																	
<b>Nominal Diameter (mm)</b>	2,0mm																	
<b>Length</b>	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.																	
<b>Color</b>	<table border="1"> <thead> <tr> <th>Fibra</th> <th>TIA 568 - C</th> <th>ABNT</th> </tr> </thead> <tbody> <tr> <td>Single-mode (G-657A2)</td> <td>White or Yellow</td> <td>White or Blue</td> </tr> <tr> <td>Multimode OM1 (62,5 µm)</td> <td>Orange</td> <td>Orange</td> </tr> <tr> <td>Multimode OM2 (50µm)</td> <td>Orange</td> <td>Yellow</td> </tr> <tr> <td>Multimode OM3 and OM4 (50µm)</td> <td>Aqua</td> <td>Aqua</td> </tr> </tbody> </table>	Fibra	TIA 568 - C	ABNT	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		
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<b>Cable Type</b>	<p><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.</p>																	

**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 μm)
- Multimode OM1 (62.5 μm)
- Multimode OM2 (50.0 μm)
- Multimode OM3 (50.0 μm)
- Multimode OM4 (50.0 μm)

**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

**Mated**

> 500 cycles

**Tensile Strength**

> 100 N

**Rupture Minimum Tensile (N)**

400 N - Duplex optical patch cord

**Marking**

Duplex Cord:  
**"FURUKAWA COA - V - DP - Y - Z W DUPLEX OPTICAL CORD month/year LOTE nL YAAMMDHm"**

where:

**V = type of optical fiber**

- SM (single-mode fiber)
- BLI-A/B (fiber "*bending loss insensitive*")
- NZD (Non-Zero Dispersion)
- MM (multimode fiber)

**Y = Cord diameter**

- 18 Cord with 1.8mm diameter
- 20 Cord with 2.0mm diameter
- 29 Cord with 2.9mm diameter

**Z = flame retardance rate**

**W = detail of the optical fiber type**

FTTA

**month / Year = date of manufacture**

**nL = batch number of manufacture**

**YAAMMDDHHmm = Traceability**

(**Y** - Extruder case; **AA** - Year; **MM** - Month; **DD** - Day; **HH** - hour; **mm** - Minute)

**Minimum Order Quantity** 1 box, for the standard Length described on length field

**Compatibility** All FCS product line.

**Quantity per gift box**

- Up to 3.0m: 15 pieces/box
- 5.0m: 12 pieces/box
- 8.0m: 8 pieces/box
- 10.0m: 6 pieces/box
- 12.0 and 15.0m: 4 pieces/box
- 20.0 and 25.0m: 3 pieces/box
- 30.0 and 35.0m: 2 pieces/box
- 40.0 and 50.0m: 1 piece/box
- 100.0m: 3 pieces/box

Note:standard supply for 2.0mm diameter cords

**Warranty** 12 months

**Certifications**

ANATEL  
 LC-PC 1344-06-0256  
 LC-APC 0583-08-0256  
 SC-PC 1365-06-0256  
 SC-APC 0483-02-0256  
 FC-PC 1366-06-0256  
 FC-APC 0485-02-0256  
 ST-PC 0484-02-0256  
 E2000-APC 0482-02-0256

**Standard**

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

ANSI/TIA-568.1-D - Comercial Building Telecommunications Cabling Standard - General Requirements

ANSI/TIA-568.3-D - Optical Fiber Cabling Components Standard

ANSI/ICEA S-83-596 Standard for Indoor Optical Fiber Cable

IEC 60332-3 Test on Electric Cables Under Fire Conditions

IEC 60754-2 Acidity of Smoke  
IEC 61034-2 Measurement of smoke density of cables burning under defined conditions  
ISO/IEC 11.801 Ed.02 - Generic Cabling for Customer Premises  
TIA-604-10 - FOCIS10 Fiber Optic Connector Intermateability Standardar - Type LC  
TIA-604-3 - FOCIS3 Fiber Optic Connector Intermateability Standardar - Type SC  
ITU-T G.657 Characteristics of a bending-loss insensitive single-mode optical fibre and cable  
ITU-T G.651 Characteristics of a 50/125 mm multimode graded index optical fibre cable  
ABNT NBR 14106 - Optical fiber cords - Specification  
ABNT NBR 14433 - Mounted connectors for optical medias and adaptors — Specification  
ABNT NBR 14565 - Structured cabling for commercial buildings  
ABNT NBR 14771 - Indoor optical fibers cables - Specification

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**RoHS**

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

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[Codification](#)