



## OPTICAL PATCH CORD SIMPLEX

Description	Optical Patch Cord is a simplex fiber cord with optical connectors on both sides.		
Application	Support for background requirements of IEEE 802.3 (Gigabit and 10 Gigabit Ethernet) 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-D.3 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 and 3.0mm		
Length	1.0m, 1.5m, 2.0m, 2.5m, 3.0m, 5.0m, 8.0m, 10.0m, 12.0m, 15.0m, 20.0m, 25.0m, 30.0m, 35.0m, 40.0m, 50.0m and 100.0m. * Additional lengths available upon request.		
Color	<b>Fiber</b>	TIA 568 - C	ABNT
	Single-mode (G-657A2)	White or Yellow	White or Blue
	Multimode OM1 (62,5µm)	Orange	Orange
	Multimode OM2 (50µm)	Orange	Yellow
	Multimode OM3 (50µm)	Aqua	Aqua
	Multimode OM4 (50µm)	Aqua	Aqua
Cable Type	<b>Simplex Tight Patch Cord:</b> totally dielectric, consists of one multimode or single-mode optical fiber coated with acrylate resin and a secondary coating of thermoplastic material (tight buffer). Dielectric strength members and a thermoplastic flame-retardant outer jacket surround the tight buffered fiber.		

Connector Type	<ul style="list-style-type: none"> <li>• LC</li> <li>• SC</li> <li>• ST</li> <li>• FC</li> </ul>
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\*\*For more information, please consult **ET03770 - Performance of Optical Connectors**.

Fiber Type	<ul style="list-style-type: none"> <li>• Single-mode G.657-A2 (9.0 μm)</li> <li>• Multimode OM1 (62.5 μm)</li> <li>• Multimode OM2 (50.0 μm)</li> <li>• Multimode OM3 (50.0 μm)</li> <li>• Multimode OM4 (50.0 μm)</li> </ul>
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Polishing Type	<ul style="list-style-type: none"> <li>• PC (UPC) - Single-mode and multimode fibers</li> <li>• APC - Single-mode fibers</li> </ul>
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Cable Flammability Rating	LSZH - Low Smoke and Zero Halogen
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Maximum Statical Load (N)	100N
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Bend Radius (mm)	SM BLI G.657-A2 Fiber: 15mm SM G.652 Fibers: 50mm MM Fibers: 60mm
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Rupture Minimum Tensile (N)	200 N - Simplex optical patch cord
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Marking	"FURUKAWA COA - V- MF - Y - Z W OPTICAL CORD month/year LOTE nL YAAMDDHHmm"
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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

YAAMDDHHmm = 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	D2.0	D3.0
Up to 3.0m	25	15
5.0m:	20	12
8.0m:	15	8
10.0m:	12	6
12.0m and 15.0m:	10	4
20.0m:	8	3
25.0m:	6	3
30.0m and 35.0m:	5	2
40.0m:	4	1
50.0m:	3	1

**Warranty** 12 months

**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-C.1 - Commercial Building Telecommunications Cabling Standard - General Requirements

ANSI/TIA-568-C.3 - 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

**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

[Codification](#)

