

OPTICAL PATCH CORD SIMPLEX OR DUPLEX

May 1	OK DOPLEX		
	Product Type	Optical Patch Cord	
- Control of the Cont	Product Family	TeraLan	
	Standard	RoHS Compliant	
Description	Optical Patch Cord sides.	is a simplex or duplex fiber cord and optical connectors on both	
Installation Environment	Indoor		
Operation Environment	Non Aggressive		
Compatibility	All FCS product line.		
Warranty	12 months		
Extended Warranty	15 or 25 years - in ac	ccordance to the FCS Extended Warranty Program	
Advantage	 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; Exceeds performance requirements of ANSI/TIA-568-C.3 standard; Support for background requirements of IEEE 802.3 (Gigabit and 10 Gigabit Ethernet)⁽¹⁾, ANSI T11.2 (Fibre Channel)⁽¹⁾ standard and ITU-T-G-984⁽³⁾; 100% assembled and tested on factory; High performance in insertion loss and return loss; Assembled in both ends with optical connectors LC, SC, ST, FC, MT-RJ and E2000; Avaiable for single-mode and multimode optical fiber; UPC or APC polishing type; 		



Marking

Simplex Cord:

"FURUKAWA COA - V- MF - Y - Z W OPTICAL CORD month/year LOTE nL YAAMMDDHHmm"

Duplex Cord:

"FURUKAWA COA - V - DP - Y - Z W DUPLEX OPTICAL CORD month/year LOTE nL YAAMMDDHHmm"

where:

V = type of optical fiber

(single-mode fiber)

- BLI-A/B (fiber "bending loss insensitive")

- NZD (Non-Zero Dispersion) (multimode fiber) - MM

Y = Cord diameter

Cord with 1.8mm diameter Cord with 2.0mm diameter 29 Cord with 2.9mm diameter

Z = flame retardance rate

W = detail of the optical fiber type

multimode fiber 50µm standard MM50 multimode fiber 62.5µm standard MM62.5 multimode fiber 50µm OM3 (50) OM3 multimode fiber 50µm OM4 (50) OM4 G-652D fiber "low water peak" ITU-T G-652D fiber "bending loss insensitive" G-657

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)

Length

- 1.5 m; 2.5 m; 3.0 m; 4.0 m; 5.0 m; 7.0 m; 10.0 m; 15.0 m and 20.0 m*.
- * Additional lenghts available upon request.

Nominal Diameter

	OPTICAL CORD
SIMPLEX	DUPLEX
2.0 mm	2.0 x 4.5 mm
3.0 mm	3.0 x 5.9 mm



Color

	TIA 598 - C		
Fiber	D 2.0	D 3.0	
Single-mode Standard (G.652B)	Yellow	Yellow	
Single-mode LWP (G.652D)	Yellow	Yellow	
Single-mode NZD (G.655/G.656)	Yellow	Yellow	
Single-mode (G657)	White	White	
Multimode OM1 (62.5µm)	Orange	Orange	
Multimode OM2 (50μm)	Orange	Orange	
Multimode OM3 (50μm)	Aqua	Aqua	
Multimode OM4 (50μm)	Aqua	Aqua	



Connector Type

LC

- SFF "Push-pull" Connector Type
- Plastic Body
- Ceramic Ferrule (zirconia)
- SM and MM Fiber
- PC Polishing (SPC/UPC) and APC Polishing
- Color of connectors: SM-PC is Blue, SM-APC is Green and MM is Beige
- Option with removable clip to LC duplex
- Duplex cord assembled as paralel TX-RX

SC

- "Push-pull" Connector Type
- Plastic Body
- Ceramic Ferrule (zirconia)
- SM and MM Fiber
- PC Polishing (SPC/UPC) and APC Polishing
- Color of connectors: SM-PC is Blue, SM-APC is Green and MM is Beige

MT-RJ

- "Push-pull" Connector Type
- Male connector (with guide pin) or female connector (without guide pin)
- Duplex
- Plastic body and ferrule
- SM or MM Fiber
- PC Polishing (SPC/UPC)
- Color of connector is Black
- Available assembled Parallel or Cross

ST

- Guide pin connector type (BNC)
- Metalic Body
- Ceramic Ferrule (zirconia)
- SM and MM Fiber
- PC Polishing (SPC/UPC)

FC

- Round connector type
- Metalic Body
- Ceramic Ferrule (zirconia)
- SM and MM Fiber
- PC Polishing (SPC/UPC)
- APC Polishing

E-2000

- "Push-pull" connector type
- Plastic body
- Ceramic Ferrule (zirconia)
- SM Fiber
- APC Polishing
- Color of connector is Green



Polishing Type

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

Fiber Type

- Single-mode Standard G.652B (9.0 µm)
- Single-mode LWP G.652D (9.0 µm)
- Single-mode G.657-A (9.0 µm)
- Single-mode G.657-B (9.0 µm)
- Single-mode NZD G.655 (9.0 µm)
- Multimode OM1 (62.5 µm)
- Multimode OM2 (50.0 µm)
- Multimode OM3 (50.0 µm)
- Multimode OM4 (50.0 µm)

Cable type

Simplex Tight Patch Cord: 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.

Duplex Tight Patch Cord: 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.

Cable Flammability Rating

- OFN General Optical Cable
- LSZH Low Smoke and Zero Halogen

*The LSZH cover complies with the specified on recommendations of standards IEC 60332-3 (Test on Electric Cables Under Fire Conditions), IEC 60754-2 (Acidity of Smoke), and IEC 61034-2 (Measurement of smoke density of cables burning under defined conditions).



Insertion loss

CONNECTOR TYPE	POLISHING	FIBER	TYPICAL - MAXIMUM INSERTION LOSS	CLASS (NBR 14433)
LC	SPC	MM	0.30 - 0.50	II
LC	UPC	ММ	0.15 - 0.30	III
LC	SPC	SM	0.30 - 0.50	II
LC	UPC	SM	0.15 - 0.30	III
LC	APC	SM	0.15 - 0.30	III
SC	SPC	ММ	0.30 - 0.50	II
SC	UPC	ММ	0.15 - 0.30	III
SC	SPC	SM	0.30 - 0.50	II
SC	UPC	SM	0.15 - 0.30	III
SC	APC	SM	0.15 - 0.30	III
MT-RJ	-	ММ	0.30 - 0.50	II
MT-RJ	-	SM	0.50 - 0.80	I
ST	SPC	ММ	0.30 - 0.50	II
ST	UPC	ММ	0.15 - 0.30	III
ST	SPC	SM	0.30 - 0.50	II
ST	UPC	SM	0.15 - 0.30	III
FC	SPC	ММ	0.30 - 0.50	II
FC	UPC	ММ	0.15 - 0.30	III
FC	SPC	SM	0.30 - 0.50	II
FC	UPC	SM	0.15 - 0.30	III
FC	APC	SM	0.15 - 0.30	III
E2000	APC	SM	0.15 - 0.30	III



Return loss

0011150700 7705	DOLINI II 10	FIRED	DETURNILOGO
CONNECTOR TYPE	POLISHING	FIBER	RETURN LOSS
LC	SPC	MM	>30
LC	UPC	MM	>30
LC	SPC	SM	>40
LC	UPC	SM	>50
LC	APC	SM	>60
SC	SPC	MM	>30
SC	UPC	MM	>30
SC	SPC	SM	>40
SC	UPC	SM	>50
SC	APC	SM	>60
MT-RJ	-	MM	>30
MT-RJ	-	SM	>40
ST	SPC	MM	>30
ST	UPC	MM	>30
ST	SPC	SM	>40
ST	UPC	SM	>50
FC	SPC	MM	>30
FC	UPC	MM	>30
FC	SPC	SM	>40
FC	UPC	SM	>50
FC	APC	SM	>60
E2000	APC	SM	>60

Bend radius	Bending Radius: 50 mm	
Cycles quantity	> 500 cycles	
Maximum weight	Simplex or Duplex cord 100 N	
Ultimate Tensile Strength	 200 N - Singlex optical patch cord 400 N - Duplex optical patch cord 	
Tensile Strength	> 100 N	
Operation Temperature	From -25°C to 75°C	
Amount per box gift	 Up to 5.0 m: 10 pieces/box From 6.0 to 15.0 m: 5 pieces/box From 16.0 to 24.0 m: 3 pieces/box From 25.0 to 35.0 m: 2 pieces/box From 36.0 to 60.0 m: 1 piece/box More than 60.0 m: 5 pieces/box Note: standard supply for 2.0 mm diameter cords	
Minimum order quantity	1 box	



Associated Solutions	Data Center, Commercial Building, Government, Health, Education, FTTx.
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 - Comercial 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
	ABNT NBR 14106 - Optical Cord
	ISO/IEC 11.801 Ed.02 - Generic Cabling for Customer Premises

ABNT 14565

Certification

