

PATCH CORDS

ONE-STOP MANUFACTURER OF HIGH CLASS DATA CENTER INFRASTRUCTURE

NOA NETWORKS

661 Commerce Street
Nashville, TN 37203 +1 (786) 219-7468



sales@noanetwork.com
www.noanetwork.com

INTRODUCTION:

Fiber connectors are the elements that allow the mechanical connection of optical fibers.

These can be applied to all types of fibers, according to each need.

FOCIS (Fiber Optic Connector Intermateability Standards) is the interconnectivity standard for these connectors, which manufacturers must follow to ensure full compatibility with other connectors of the same type.

Fiber optic patch cables are designed for ODF interconnections and high-speed communications equipment.

They are manufactured and tested in compliance with TIA 604 (FOCIS), IEC 61754 and industry standards YD /

T. OM1, OM2, OM3, OM4, to meet the demand for 1, 10 and 40 Gigabit transmissions, in Ethernet channels and Fiber high speed.

Each end of patch cables is tested to rigorous standards to ensure the best network performance.

CHARACTERISTICS

High quality zirconia splints.

Good repeatability and exchange.

Fire retardant, robust and durable jacket.

Factory terminated and tested for insertion loss, return loss, and tip finish.

Available in standard connectors LC, SC, ST, FC.

Singlemode (OS2) and multimode (OM1, OM2, OM3, OM4).

APPLICATIONS

Data center.

Company.

Fiber to the X (FTTX).

Local area network and wide area network (LAN and WAN).

Community Antenna Television Network (CATV Network).

Telecommunications network.

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PATCH CORD CERTIFICATION

VISUAL VERIFICATION OF LOSSES IN POLISHING



TEST REPORT

PATCH CORD DUPLEX LC - LC		Multimodo	
REFERENCIA:	PF-9641	PASS	INSTRUMENT: REFLECTOMETER
BO TEST:	1800	CABLE TYPE:	MM-BG / 1000
FECHA DEL TEST:	26 de febrero de 2019	LENGTH:	2 METROS
ANCHO DE BANDA MODAL:	OM3	DIAMETRO NUCLEO:	50/125
OPERADOR:	SAMPLE		
CLIENTE:	SAGA S.A		
		PERDIDA DE INSERTION 0.18 0.30 PERDIDA DE RETORNO 0.00 0.00 0.00 SAMPLED TEST: PASS	
COMPATIBLE STANDARDS: IEEE 802.3G IEEE 802.3R IEEE 802.3Z		FIBRA OPTICA: DIAMETRO DEL NUCLEO: 50 / 125 MICRAS DIAMETRO DEL CLADING: 125 / 125 MICRAS CONCENTRICIDAD DEL NUCLEO: ± 1.5 MICRAS CONCENTRICIDAD DEL CLADING: ± 1.5 MICRAS	
CONECTOR LC / UPC: DIAMETRO DEL NUCLEO: 50 / 125 MICRAS DIAMETRO DEL CLADING: 125 / 125 MICRAS CONCENTRICIDAD DEL NUCLEO: ± 1.5 MICRAS CONCENTRICIDAD DEL CLADING: ± 1.5 MICRAS		QUEST INTERNATIONAL C/VA 1004015-2018 30044 PARRAGA DE R. 28111 (T) 46110 400004 - 000000	
www.questinter.com			

LOSS MEASUREMENT



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COMPLIANCE WITH STANDARDS

TIA 604 (FOCIS)
TIA/EIA 492AAAE IEC 61754
IEC 60793-2-10 IEC61300-3-35 YD/T1272.1-2003
RoHS, ISO9001 Compliant

YO.Mechanical Characteristics

Fiber Type	Amount of Fibers	OS2/OM4/OM3/OM2/OM1
Cable cover		Simplex/Duplex
Sheath Color	Yellow	PVC (Riser/OFNR) / LSZH
Fiber Grade		OM1/OM2: Orange; OM3: Aqua; OM4: Magenta; OS2: Singlemode: G.652.D

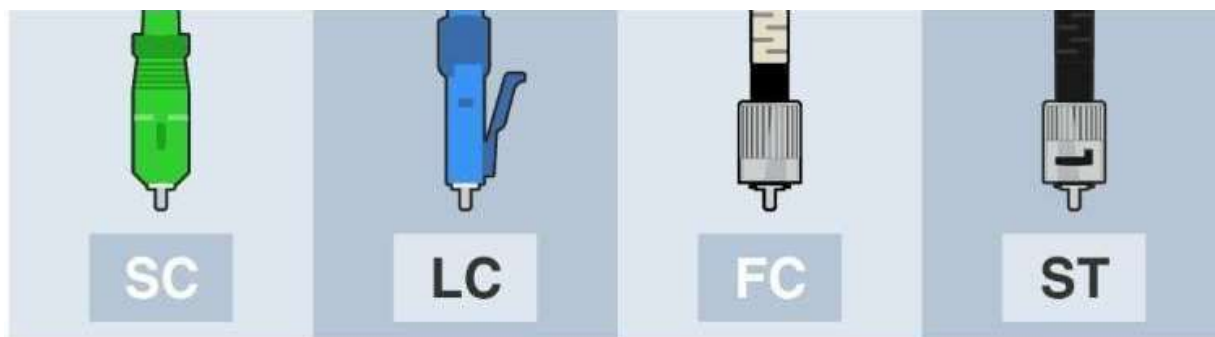


Optical Characteristics

Insertion connector loss	Singlemode: LC/SC/ST/FC $\leq 0.3\text{dB}$ Multimode: LC/SC/ST/FC $\leq 0.3\text{dB}$;
Lost Return Connector	Single mode: UPC $\geq 50\text{dB}$; APC $\geq 60\text{dB}$; Multimode: $\geq 20\text{dB}$
Attenuation at 1310nm	0.36dB/km
Attenuation at 850nm	3.0 dB/km
Attenuation at 1300nm	1.0dB/km

Environmental Characteristics

Operation Temperature 40~75°C OS2/OM4/OM3/OM2/OM1: -



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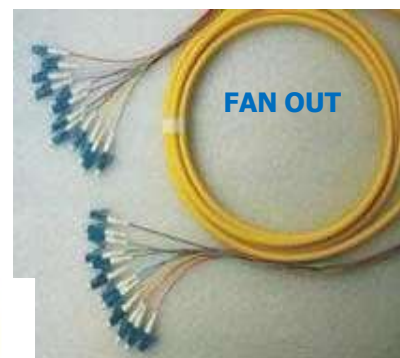
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Patch Cord Options

- **Simplex** in single mode LC, SC, FC, widely used in Telecom, FTTx, GPON.
- **Duplex** in different termination options: LC, SC, FC, ST
- **Loopback** (test duplex connector), can be SC or LC.
- **Fan-out** (trunk), multi-fiber in a single 8, 12, 24 or 48 fiber cable, upon request.
- **Uniboot** (uniboot) applicable only for LC Duplex, duplex fiber in circular Simplex jacket, reduces up to 60% space for cable management in panels and high-density fiber port trays (Data Center, main cabinets, fiber optic headends) .



Connector Type	SC, FC, LC, ST, E2000		
Polishing Type	MM/UPC	SM/UPC	SM/APC
Insertion Loss (IL)	≤0.30dB	≤0.30dB	≤0.30dB
Return Loss (RL)	≥35dB	≥50dB	≥60dB
tensile strength	> 70N		
Tensile strength (cable)	> 150N		
Breaking Traction (rope)	> 200N		
Crushing load (rope)	> 500N		
Durability	> 500 cycles		
Minimum radius of curvature	10 times the diameter of the cable		
Storage and operating temperature	between -40°C and +85°C		

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Optical Specifications

		Polished APC	Polished UPC
Radio of curvature	SC/FC/ST	5 - 12mm	10 - 25mm
	LC	5 - 15mm	7 - 25mm
Apex Offset			≤50um
Fiber Spherical Height		±100nm	±50nm
Angular Offset		8* ± 0,2*	-----

Geometric Specifications



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Standards and Requirements.

Standards Compliance	
NO.	Standard and Requirements
1	ROHS 2011/65/EU and its subsequent amendments (EU) 2015/863
2	Certification in ISO 9001:2015 by certification system SGS
3	IEC 62321-8:2017 standard Dibutyl Phthalate (DBP) according to Laboratio DYS FIBER OPTIC LIMITED
4	IEC 62321-8:2017 standard Benzylbutyl Phthalate (BBP) according to DYS FIBER OPTIC LIMITED laboratory
5	Standard IEC-62321-8:2017 Di-(2-ethylhexyl Phthalate(DEHP)) according to laboratory DYS FIBER OPTIC LIMITED
6	Standard IEC-62321-8:2017 Diisobutyl Phthlate (DIBP) according to DYS FIBER OPTIC LIMITED laboratory
7	Standard IEC62321-5:2013 Pb test according to DYS FIBER OPTIC LIMITED laboratory
8	Standard IEC62321-4:2013/AMD1:2015 Cd test according to laboratory DYS FIBER OPTIC LIMITED
9	Standard IEC62321-7-1:2015 Cr(VI)(Metal) test according to DYS FIBER OPTIC LIMITED laboratory
10	Standard IEC62321-7-2:2017 Cr(VI)(Nonmetal) test according to DYS FIBER OPTIC LIMITED laboratory
11	Standard IEC62321-6:2015 PBBs test according to laboratory DYS FIBER OPTIC LIMITED

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