SL Series



SLA-5-01X08-JH-D

Compact Loose Central Tube Fiberoptic Cable

APPLICATIONS

- Both indoor and outdoor
- Ducts, aerial installations and direct burial (armored option)
- Gigabit Ethernet,10Gigabit Ethernet

CABLE DESCRIPTION

The cable consists of a single tube containing 2 up to 24 fibers, which is filled with water-blocking gel. When the cable contains more than 12 fibers, they are divided in two groups. A colored thread identifies each group. Physical protection and tensile strength are provided by aramid yarn, glass yarn or fiberglass wound around the tube. A wide range of jacket options are available: UV-stabilized PVC & PE, halogen-free flame-retardant material, polyethylene with corrugated anti-rodent steel armoring, a jacket incorporating a sealed aluminum tape, and more, A ripcord is located under the jacket to facilitate jacket removal.

BENEFITS

- Small diameter and light weight
- Cost-effective
- Wide operating temperature range
- Outer jacket is resistant to chemicals and corrodents

STANDARDS

- Both single mode and multi mode fibers meet Standards of ITU-T, EIA/TIA, ISO/IEC, Bellcore and ANSI/FDDI.
- Cables tested according to EIA/TIA-455, IEC-60794-1-2 and EN-187000
- Cables ordered with PVC or HFFR jackets meet IEC60332-1 standard. On request cables meeting the IEC60332-3 can be supplied.
- Superior Cables Telecommunications and Electronics Cables Division is ISO-9001 certified.

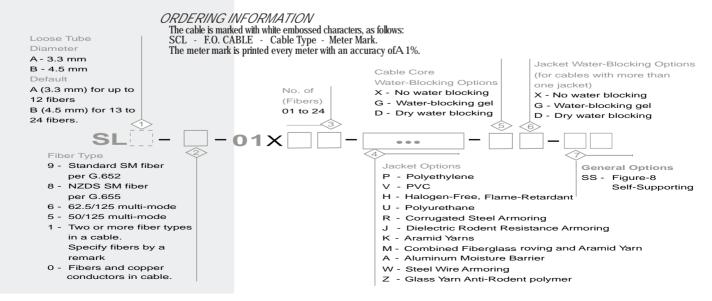


STANDARD CABLE SPECIFICATIONS

For more data please contact marketing department.

Max. Pulling Load	1500 N(typical) / 3000 N(specified) ^(*)				
Max. Operating Load	60% of the Max. Pulling Load				
Max. Compressive Load	For all SLA cables: 3000 N				
	For all armored cables: 6000 N				
Max. Vertical Rise	150m				
Minimum Bending Radius for Installation	20 x cable O.D.				
Minimum Long Term Bending Radius	20 x cable O.D. for armored cables				
	10 x cable O.D. for unarmored cables				
Twist (Torsion) - Length	125 x cable O.D.				
Cyclic Flexing	25 cycles for armored cables,				
	100 cycles for unarmored cables				
Impact Resistance	2N.m (SLA), 3N.m(SLB)				
Cable Outer Diameter	8mm (SLA, unarmored, 2~12C)				
	10mm (SLB, unarmored, 14~24C)				
	10mm (SLA, armored, 2~12C)				
	12mm (SLB, armored, 14~24C)				
Loose Tube Diameter	3.3mm(SLA),4.5mm(SLB)				
Operating Temperature Range	-40IC to +80IC				
Installation Temperature Range	-15IC to +75IC				
Storage Temperature Range	-40IC to +75IC				

(*) Aramid peripheral strength members may be added in order to reach the specified tensile load over 3000N.





Optical fiber characteristics

The optical characteristics below pertain to cabled fibers.

SINGLE-MODE FIBERS

	Standard Single Mode Fiber per ITU-T G.652*		Non-Zero Dispersion Shifted Fiber per ITU-T G.655*			Units
Fiber Code	9		8			
Attenuation, Loose Tube Cables	Standard		Metro Area		Long Haul	
@ 1310 nm	O0.35		O0.40		-	dB/km
@ 1550 nm	O0.22		O0.24		O0.25	dB/km
@ 1625 nm	-		O0.25		O0.25	dB/km
Attenuation, Tight Buffer Cables						
@ 1310 nm	O0.45		-		dB/km	
@ 1550 nm	O0.35		-			dB/km
Dispersion between 1285 and 1350			-		-	ps/(nmxkm)
between 1530 and 1565	565 nm O18.0		2.0-6.0		2.0-6.0	ps/(nm xkm)
between 1565 and 1625 n	5 nm -		4.0-9.8		4.0-11.2	ps/(nmxkm)
Zero Dispersion Wavelength	1311 A 11		-			nm
Mode Field Diameter						
@ 1300 nm	9.2A0.5		-		-	um
@ 1550 nm	10.4A1.0		8.4A0.6		9.6A0.4	um
Cable Cut-Off Wavelength	O1260					nm
CladdingDiameter	125A1.0		125A1.0		125A1.0	um
Core/Cladding Concentricity Erro			O0.5		O0.6	um
Cladding Non-Circularity	O1.0		0.0		O1.0	%
Coating Diameter	245A10		245A10		245A10	um
Proof-Test Level	0.7		0.7		0.7	GN/m ²
Parameter	50/12		25 62		5/125	Units
Fiber Code	5(1,2		:)		6 ⁽¹⁾	-
ISO/IEC 11801 Classification ⁽²⁾	O M 2	OM2+	O M 3		OM1	-
Attenuation, Loose Tube Cables						
@ 850 nm	O 3.0) O 3.2		dB/km	
@ 1300 nm	O1.()		O0.9	dB/km
Attenuation, Tight Buffer and Semi-Tight Cables						
@ 850 nm	O 3.5				O 3.5	dB/km
@ 1300 nm		01.2	2		01.5	dB/km
Bandwidth* @ 850 nm	P500	P600	P1500		P 200	MHz*km
@ 1300 nm	P800 P1200		P500		P600	MHz*km
Numerical Aperture	0.20A		0.015	0.2	275A0.015	-
Core Diameter	50A3		}		62.5A3	um
Cladding Diameter	125A2				125A2	um
Core Non Circularity	06			O6		%
Cladding Non-Circularity	02				02	%
Core/Cladding Offset	03			O3		um
Coating Diameter	245A		10	245A10		um
Proof-Test Level	0.7			0.7		GN/m ²

MULTI-MODE FIBERS

- Patch cord grade fibers have lower bandwidth: 62.5/125 fiber code 4: 200 MHz.km at both 850 and 1300 nm 50/125 fiber code 3: 400 MHz.km at both 850 and 1300 nm.
- (2) See Fiber Material for Bandwidth performance