

LSZHT Premise Distribution Cable

tight buffer construction / 2 to 144 fibers / singlemode or multimode / OFNR OFN FT4



Applications

These are multiple fiber distribution cables designed for high-speed interbuilding and intrabuilding communication systems. Low-smoke zero-halogen (LSZH) construction allows their use in tunnels and wherever there are low smoke and low toxicity requirements. Tight buffered fibers in a distribution construction allow for easy separation and routing of fiber bundles.

All LSZHT cables are Gigabit Ethernet IEEE 802.3z compliant. MaxCap multimode fiber for 10 Gb networks is available.

Ratings

- OFNR/OFN, CSA FT4

Construction

FIBER: Multimode or singlemode fibers with a rugged 900 micron tight buffering colored per TIA/EIA 598.

SUBUNIT STRENGTH MEMBER: Aramid yarn.

FINAL JACKET: Low smoke zero halogen polyolefin.

Prysmian Group

700 Industrial Drive | Lexington, SC 29072 | +1-800-845-8507 | www.prysmiangroup.com

Sales and Distribution:

22 Joseph E. Warner Blvd. | North Dighton, MA 02764 | +1-508-822-5444
One Tamaqua Blvd. | Schuylkill Haven PA 17972 | Tel +1-570-385-4381

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Part Number	Installation Pull Strength Lbs (Newtons)	Installation Bend Radius in (cm)	Operating Tension Lbs (Newtons)	Operating Bend Radius in (cm)	Maximum Recommended Spam* feet (meters)	Cable O.D. in (mm)	Approx. Cable Weight Lbs/Mft (Kg/Km)
LSZHT-02R-XXY	180 (800)	3.7 (9.5)	56 (250)	1.9 (4.7)	2987 (910)	0.187 (4.75)	15 (22)
LSZHT-04-XXY	225 (1000)	4.4 (11.2)	91 (400)	2.2 (5.6)	3467 (1057)	0.220 (5.59)	21 (31)
LSZHT-06-XXY	225 (1000)	4.7 (11.9)	91 (400)	2.4 (6.0)	3309 (1009)	0.235 (5.97)	22 (33)
LSZHT-08-XXY	315 (1400)	4.9 (12.4)	104 (463)	2.5 (6.2)	3467 (1057)	0.245 (6.22)	24 (36)
LSZHT-12-XXY	405 (1800)	5.3 (13.5)	135 (600)	2.7 (6.7)	3484 (1062)	0.265 (6.73)	31 (46)
LSZHT4-16-XXY	600 (2700)	9.6 (24.6)	250 (1110)	4.8 (12.3)	2255 (687)	0.482 (12.29)	89 (132)
LSZHT6-24-XXY	600 (2700)	10.4 (26.2)	250 (1110)	5.2 (13.1)	2053 (626)	0.516 (13.11)	97 (145)
LSZHT6-30-XXY	788 (3500)	11.4 (28.8)	383 (1700)	5.7 (14.4)	2519 (768)	0.566 (14.38)	122 (181)
LSZHT6-36-XXY	900 (4000)	12.4 (31.6)	450 (2000)	6.2 (15.8)	2435 (742)	0.622 (15.82)	148 (220)
LSZHT12-48-XXY	1125 (5000)	12.6 (32.0)	563 (2500)	6.3 (16.0)	3455 (1053)	0.630 (16.00)	130 (194)
LSZHT12-72-XXY	1238 (5500)	15.4 (39.0)	675 (3000)	7.7 (19.5)	2724 (830)	0.769 (19.53)	198 (295)
LSZHT12-84-XXY	1575 (7000)	16.8 (42.6)	788 (3500)	8.4 (21.3)	2584 (788)	0.839 (21.31)	244 (363)
LSZHT12-96-XXY	1980 (8800)	18.2 (46.2)	900 (4000)	9.1 (23.1)	2403 (763)	0.908 (23.06)	288 (428)
LSZHT12-120-XXY	2250 (10000)	20.3 (51.6)	900 (4000)	10.1 (25.8)	2365 (721)	1.016 (25.81)	304 (453)
LSZHT12-132-XXY	2250 (10000)	20.3 (51.6)	900 (4000)	10.1 (25.8)	2365 (721)	1.016 (25.81)	304 (453)
LSZHT12-144-XXY	2250 (10000)	20.3 (51.6)	900 (4000)	10.1 (25.8)	2365 (721)	1.016 (25.81)	304 (453)

Higher fiber counts are available; rating to 144 fibers.

The data herein is approximate and subject to normal manufacturing tolerances.

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.

Fiber Performance

Replace XXY in the part number above with your fiber requirements:

Multi-mode	Min Bandwidth	Max. Attenuation
Designation	850nm/1300nm	850nm/1300nm
50GBE	1500/500	3.50/1.50
50H	500/500	3.50/1.50
50E1 (HiCap)	500/500	3.50/1.00
62X	200/500	3.50/1.00
62E1	300/600	3.50/1.00*

* Mode conditioning patch cords not required

Singlemode	Max. Attenuation
Designation	1310nm/1550nm
010X	0.70/0.70
010A3	0.50/0.50

Environmental Specifications

Description	FOTP	Requirements
Operating Temp	EIA-455-3	-20°C to 80°C
Storage Temp	EIA-455-3	-40°C to 80°C
Installation Temp	---	-20°C to 80°C

Mechanical Specifications

Description	FOTP	Requirements
Crush Resistance	EIA-455-41	1500 N/cm (857 lbs/in)
Impact Resistance	EIA-455-25	50 impacts with 4.4 N-m
Cyclic Flexing Test	EIA-455-104	2000 cycles

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