

DLSZHB Aerial/Duct Cable

tray rated / loose tube construction / 2 to 144 fibers / singlemode or multimode / OFN-LS



Applications

These are multiple fiber loose tube cables designed for high-speed interbuilding and intrabuilding communication systems such as process control, SCADA, transit, subway tunnels, airports, etc. as they emit very low concentrations of dangerous fumes when burned. Loose tube design offers optimum fiber performance.

Standard DLSZHB cables have a thermoplastic jacket. For transit applications (where the cable may be attacked by chemical/petroleum immersion, abrasion, heat/sparks generated by the third rail) or may undergo repeated flexing, a tough thermoset jacket is offered.

Fully flooded and higher fiber count cables are available. All DLSZHB cables are Gigabit Ethernet IEEE 802.3z compliant. MaxCap multimode fiber for 10 Gb networks is available.

Ratings

- OFN-LS

Construction

FIBER: Multimode or singlemode fibers with an acrylate coating for mechanical protection colored per TIA/EIA 598. Exclusive ColorLock® fiber coating (singlemode) for permanent embedded color & long-term performance.

CENTRAL STRENGTH MEMBER: Dielectric material (epoxy/fiberglass rod).

BUFFER TUBES: Polymeric insulation filled with a moisture-resistant material to prevent water penetration. Fillers (when needed) are dielectric material.

DRY BLOCK TAPE : Swellable tape wrapped around the cable core to prevent water penetration.

STRENGTH MEMBER: High-strength aramid yarn.

OUTER JACKET: Black thermoplastic Halex low smoke zero halogen polyolefin. An optional thermoset jacket is available for more demanding applications.

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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)	Vertical Rise ft. (meters)	Cable O.D. in (mm)	Approx. Cable Weight Lbs/Mft (Kg/Km)
DLSZHB2-02R-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB4-04-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB6-06-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB4-08-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB6-12-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB4-16-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB6-24-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB6-30-XXY	600 (2700)	8.4 (21.4)	200 (890)	4.2 (10.7)	2286 (697)	0.421 (10.70)	70 (104)
DLSZHB6-36-XXY	600 (2700)	9.0 (22.9)	200 (890)	4.5 (11.5)	1975 (602)	0.451 (11.45)	81 (121)
DLSZHB12-48-XXY	600 (2700)	9.4 (23.7)	200 (890)	4.7 (11.9)	1839 (561)	0.467 (11.86)	87 (129)
DLSZHB12-60-XXY	600 (2700)	9.4 (23.7)	200 (890)	4.7 (11.9)	1839 (561)	0.467 (11.86)	87 (129)
DLSZHB12-72-XXY	600 (2700)	10.0 (25.4)	200 (890)	5.0 (12.7)	1584 (483)	0.503 (12.78)	101 (150)
DLSZHB12-84-XXY	600 (2700)	10.8 (27.4)	200 (890)	5.4 (13.7)	1368 (417)	0.541 (13.74)	117 (174)
DLSZHB12-96-XXY	600 (2700)	11.6 (29.4)	200 (890)	5.8 (14.7)	1203 (367)	0.576 (14.63)	133 (198)
DLSZHB12-108-XXY	600 (2700)	12.6 (32.1)	200 (890)	6.3 (16.0)	1006 (307)	0.631 (16.03)	159 (237)
DLSZHB12-120-XXY	600 (2700)	13.4 (33.8)	200 (890)	6.7 (17.0)	889 (271)	0.666 (16.92)	180 (268)
DLSZHB12-132-XXY	600 (2700)	14.0 (35.6)	200 (890)	7.0 (17.8)	792 (241)	0.701 (17.81)	202 (301)
DLSZHB12-144-XXY	600 (2700)	15.2 (38.7)	200 (890)	7.6 (19.3)	667 (203)	0.761 (19.33)	240 (357)

Higher fiber counts are available. Flooded core is available.

Information is subject to change without notice. Contact your Draka representative for information about designs with alternative span requirements or cable diameters.

Fiber Performance

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

Multi-mode Designation	Min. Bandwidth 850nm/1300nm	Max. Attenuation 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 Designation	Max. Attenuation 1310nm/1550nm	
010X	0.40/0.30	
010A3	0.35/0.25	
Environmental Specifications		
Description	FOTP	Requirements
Operating Temp	EIA-455-3	-40°C to 70°C
Storage Temp	EIA-455-3	-20°C to 70°C
Installation Temp	- - -	-30°C to 70°C
Mechanical Specifications		
Description	FOTP	Requirements
Crush Resistance	EIA-455-41	600 N/cm (343 lbs/in)
Impact Resistance	EIA-455-25	25 impacts with 5.0 N-m
Cyclic Flexing Test	EIA-455-104	2000 Cycles

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