

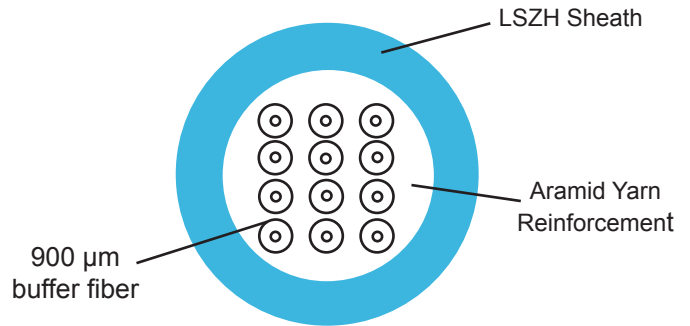
6-24 Indoor Distribution LSZH Fiber Cable

APPLICATION

- As backbone in LANs
- For premises wiring
- Indoor and outdoor in ducts

STANDARDS COMPLIANCE

EN 187000, IEC 60794-2, IEC 60794-2-20
 ISO 11801 2nd edition, EN 50 173-1
 ITU G.652.A/B/C/D for SM (low water peak)
 ITU G.657.A/B for SM (enhanced bend insensitive)



Construction	
Fiber	6-24 tightly buffered fibers, 900 µm
Strength member	Ultra high modulus Aramid yarns
Jacket	Flame resistant thermoplastic, halogen free, UV stabilized, EN 50290-2-27
Color	OS2: Yellow; OM2: Orange; OM3/OM4: Aqua

Fire Rating	
IEC 60332-1-2	Single vertical wire test
IEC 60332-3-24 IEC 332-3C	Vertically-mounted bunched wires and cables (cable with up to 12 fibers)
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

Physical Properties		
Permanent tensile strength	4, 6, 8 fibers	280 N
	12 fibers	340 N
	24 fibers	400 N
Short term tensile strength (some days)	4, 6, 8 fibers	560 N
	12 fibers	680 N
	24 fibers	800 N
Compressive strength (crush)	3000 N/100 mm	
Impact	20 J	
Torsion	5 cycles +/- 1 turn	
Temperature	Operation and installation: -20 °C to 70 °C Storage: -40 °C to 70 °C	

Mechanical Properties			
Fiber count	Nominal diameter	Nominal cable weight	Minimum bending radius Long term/short term
4	5 mm	26 kg/km	100/50 mm
6	5.5 mm	30 kg/km	100/50 mm
8	6 mm	35 kg/km	100/50 mm
12	6.5 mm	45 kg/km	130/75 mm
24	8 mm	65 kg/km	230/115 mm

50DRZ-yy1, 5LDRZ-yy1, SMDRZ-yy1

TRANSMISSION CHARACTERISTICS

50/125 μm OM2 Multimode

Attenuation (of cable with fibers)

Maximum value of cable at 850 nm	≤ 2.7 dB/km
Maximum value of cable at 1300 nm	≤ 0.8 dB/km
Typical value at 850 nm	≤ 2.5 dB/km
Typical value at 1300 nm	≤ 0.6 dB/km
Inhomogeneity of OTDR trace for any two 1000 meter fiber lengths	Max. 0.2 dB/km

Bandwidth

850 nm	600 MHz • km
1300 nm	1200 MHz • km
Group index of refraction at 850 nm	1.482
Group index of refraction at 1300 nm	1.477

50/125 μm	OM3 Multimode	OM4 Multimode*
Attenuation		
Maximum value of cable at 850 nm	≤ 3.0 dB/km	≤ 2.3 dB/km
Maximum value of cable at 1300 nm	≤ 1.0 dB/km	≤ 0.6 dB/km
Maximum value of fiber (for reference only) at 850 nm	≤ 2.5 dB/km	≤ 2.1 dB/km
Maximum value of fiber (for reference only) at 1300 nm	≤ 0.7 dB/km	≤ 0.4 dB/km
Inhomogeneity of OTDR trace for any two 1000 meter fiber lengths	Max. 0.1 dB/km	Max. 0.1 dB/km
Bandwidth		
OFL value at 850 nm	≤ 1500 MHz • km	≤ 3500 MHz • km
OFL value at 1300 nm	≤ 500 MHz • km	≤ 500 MHz • km
Effective Modal Bandwidth (EMB)	≤ 2000 MHz • km	≤ 4,700 MHz • km
Group index of refraction at 850 nm	1.482	1.482
Group index of refraction at 1300 nm	1.477	1.477

OS2 Single-mode

Attenuation

1310 nm -1625 nm	≤ 0.39 dB/km
1550 nm	≤ 0.25 dB/km
Inhomogeneity of OTDR trace for any two 1000 meter fiber lengths	Max. 0.1 dB/km

Bandwidth

Group index of refraction at 1310 nm	1.467
Group index of refraction at 1550 nm	1.468
Group index of refraction at 1625 nm	1.468

PART NUMBERS

Description	Part No.
50/125 μm (OM2) Multimode Indoor Distribution LSZH Cable	50DRZ-yy1
50/125 μm (OM3) Multimode Indoor Distribution LSZH Cable	5LDRZ-yy1
9/125 μm (OS2) Single-Mode Indoor Distribution LSZH Cable	SMDRZ-yy1

yy= fiber count: (06) 6 fibers;
 (12) 12 fibers; (24) 24 fibers

- All packaging is 1,000 meter drum reel. Longer lengths available upon request
- Other fiber counts available upon request

* OM4 fiber available upon request



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