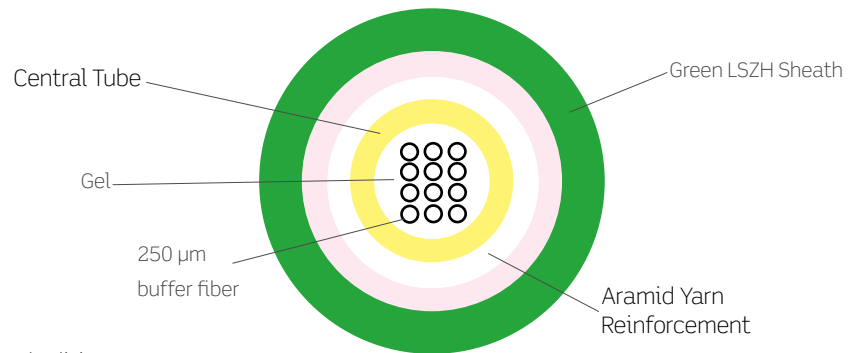


FIBER CABLES | 2-24 Indoor/Outdoor Central Loose Tube LSZH Fiber Cable

APPLICATION

LAN backbones
Telecom access lines
Campus networks



STANDARDS COMPLIANCE

EN 50173-1:2002, IEC 60794-1, ISO 11801 2nd edition
ITU G.652.A/B/C/D for SM (low water peak)
ITU G.657.A/B for SM (enhanced bend insensitive)

CONSTRUCTION

Loose Tube	ø2.8 mm jelly filled loose tube with 2-16 fibers; ø3.5 mm loose tube with 24 fibers
Strength member	Waterblocked E-Glass fiber elements
Armoring	1.5 mm green FireBur sheath, UV stabilized, IEC 50290-2-27

FIRE RATING

IEC 60332-1-2	Single vertical wire test
IEC 60754-1	No halogens
IEC 60754-2	No acid matters
IEC 61034-2	No dense smoke

PHYSICAL PROPERTIES

Nominal outer diameter	2-16 fibers: 7.5 mm 24 fibers: 8.0 mm
Nominal weight	24 fibers: 8.0 mm 2-16 fibers: 55 kg/km
Maximum installation tensile strength	1500 N (fiber strain less than 1/2 of proof test level)
Short term tensile strength	1000 N (fiber strain less than 1/3 of proof test level)
Permanent tensile strength	700 N (no attenuation change, fiber strain less than 1/4 of proof test level)
Compressive strength (crush)	2000 N
Impact	20 Nm (no attenuation change, no broken cable elements)
Torsion	5 cycles +- 1 turn
Kink	The cables do not form a kink when a loop is drawn together to a diameter of 200 mm
Min. bending radius, unloaded	R=60 mm
Min. bending radius, loaded	R=110 mm
Temperature	Storage: -40 °C to 60 °C (short term up to 70 °C) Installation: -15 °C to 40 °C Operation: -30 °C to 70 °C
Water penetration	No water on free end

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
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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) Effective Modal Bandwidth	< 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

9/125 µm OS1/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/Outdoor Loose LSZHCable	50LRZ-yy1
50/125 µm (OM3) Multimode Indoor/Outdoor Loose LSZH Cable	5LLRZ-yy1
50/125 µm (OM4) Multimode Indoor/Outdoor Loose LSZH Cable	55LRZ-yy1
9/125 µm (OS1/OS2) Single-Mode Indoor/Outdoor Loose LSZH Cable	SMLRZ-yy1

yy= fiber count: (02) 2 fibers; (04) 4 fibers; (06) 6 fibers; (08) 8 fibers; (12) 12 fibers; (16) 16 fibers; (24) 24 fibers

Note: All packaging is 1,000 meter drum reel. Other lengths available upon request.

62.5/125 µm (OM1) multimode cable is available upon request.

Fiber count higher than 24 available upon request

