

6-24 Indoor/Outdoor Central Loose Tube Armor

APPLICATION

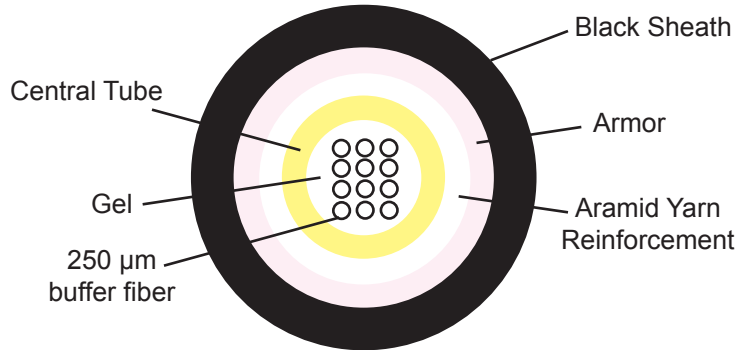
- LAN backbones
- Outdoor direct burial
- Tunnels
- Conduits

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)

COUNTRY OF ORIGIN

Denmark



50LAZ-yy2, 5LLAZ-yy2, SMLAZ-yy2

CONSTRUCTION	
Loose Tube	ø2.8 mm jelly filled loose tube with 2-16 fibers; ø3.5 mm loose tube with 24 fibers
Strength member	E-Glass yarns
Armoring	0.15 mm corrugated steel tape
Jacket	Black MDPE sheath, IEC 60811, IEC 60708

PHYSICAL PROPERTIES	
Nominal outer diameter	6-12 fibers: 8.5 mm 16-24 fibers: 9.5 mm
Nominal weight	6-12 fibers: 75 kg/km 16-24 fibers: 80 kg/km
Tensile strength (dynamic)	1000 N
Tensile strength (permanent)	500 N
Compressive strength (crush)	2000 N
Impact	10 nm
Torsion	5 cycles +/- 1 turn
Kink	The cables do not form a kink when a loop is drawn together to a diameter of 100 mm
Min. bending radius, unloaded	R=55 mm
Min. bending radius, loaded	R=110 mm
Temperature	Operation and installation: -40 °C to 70 °C Storage: -40 °C to 70 °C

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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) 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 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 Outdoor Loose Armor Cable	50LAZ-yy2
50/125 µm (OM3) Multimode Outdoor Loose Armor Cable	5LLAZ-yy2
9/125 µm (OS2) Single-Mode Outdoor Loose Armor Cable	SMLAZ-yy2

- yy= fiber count: (06) 6 fibers; (12) 12 fibers; (24) 24 fibers
- All packaging is 2,000-meter drum reel. Longer lengths available upon request
 - Other fiber counts available upon request

* OM4 fiber available upon request



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