

MARINE FIBER OPTIC MUD RESISTANT LOOSE TUBE WITH MICA ARMORED CABLE



Description

- Low-Smoke Zero-Halogen Mud Resistance
- Flame Retardant, Fire Resistance Cable
- Armored, Loose Tube with Mica, 4 ~ 48C
- NEK606, IEC 60092-353

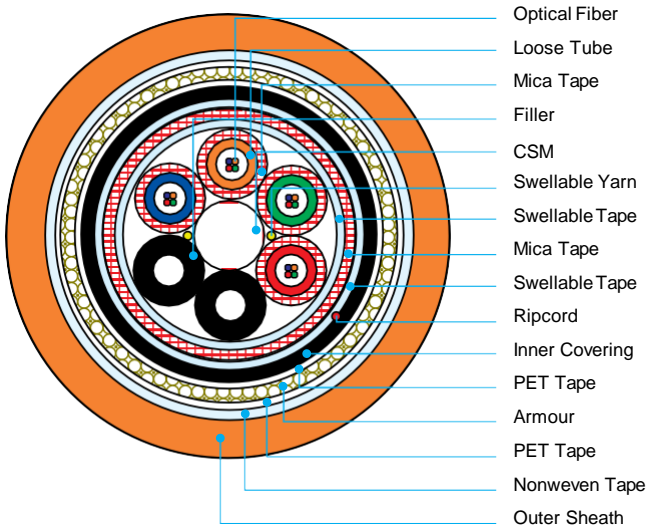
Application

- Marine vessels, offshore platforms, oil platform, oil rigs, FPSOs, drill ship and others

Features

- Suitable for use in shipboard, fixed or floating platform & MODU's
- Loose tube type cable
- Galvanized steel armor for increased mechanical protection
- Operating Temperature: -40°C ~ 70°C
- LSZH thermoset UV-resistant, oil-resistant, sunlight-resistant, mud-resistant sheath
- Gigabit Ethernet compliant
- ABS Approval Certificate 05-SE60505-X
- DNV Type Approval Certificate E-9401

LSZH CABLE



Cable Properties

Tensile Strength (IEC 60794-1-2E1)

Installation	1500 N
Operation	500 N

Crush (IEC 60794-1-2E3)

3000 N/10cm

Impact (IEC 60794-1-2E4)

30 J

Torsion (IEC 60794-1-2E7)

±1turn/1m

Cable Bend (IEC 60794-1-2E11)

x10D

Cold Bend

-40°C

Temperature

Installation -10°C ~ +60°C

Operation -40°C ~ +70°C

Mud Resistance

Diesel IRM 903 100°C 7days

Calcium Bromide Brine 70°C 56days

Carbo Sea 70°C 56days

Flame and Fire Characteristics

IEC 60331-25 1000°C 180min. ≤1.5dB

IEC 60332-1&3 Flame Retardant

Smoke Density

IEC 61034 ≥60%

Halogen Contents

IEC 60754-1&2 ≤0.5%

Single Mode Fiber

Attribute	Detail	Unit	Specification			
			SM G.652D	SM G.657A1	SM G.657 A2&B2	SM G.657B3
Attenuation Coefficient	at 1310nm	dB/km	≤0.40	≤0.40	≤0.40	≤0.40
	at 1550nm		≤0.30	≤0.30	≤0.30	≤0.30
Chromatic Dispersion	at 1290nm ~ 1330nm	ps/nm.km	≤2.8	≤2.8	≤2.8	≤2.8
	at 1550 nm		≤18	≤18	≤18	≤18
Zero Dispersion Wavelength		nm	1300 ~ 1324	1300 ~ 1324	1300 ~ 1324	1300 ~ 1324
Zero Dispersion Slope		ps/nm ² .km	≤0.095	≤0.095	≤0.095	≤0.095
PMD Coefficient		ps/√km	≤0.4	≤0.4	≤0.4	≤0.4
Cut-off Wavelength		nm	≤1260	≤1260	≤1260	≤1260
Mode Field Diameter	at 1310nm	μm	9.2 ± 0.5	8.6 ± 0.5	8.6 ± 0.5	8.6 ± 0.5
Cladding Diameter		μm	125 ± 1	125 ± 1	125 ± 1	125 ± 1
Core/Clad concentricity error		μm	≤0.8	≤0.8	≤0.8	≤0.8
Cladding Non-circularity		%	≤1	≤1	≤1	≤1
Coating Diameter		μm	245 ± 15	245 ± 15	245 ± 15	245 ± 15

Multi-Mode Fiber

Attribute	Detail	Unit	Specification			
			MM62.5 (OM1)	MM50 (OM2)	MM50 (OM3)	MM50 (OM4)
Attenuation Coefficient	at 850nm	dB/km	≤3.5	≤3.0	≤3.0	≤3.0
	at 1300nm		≤1.5	≤1.0	≤1.0	≤1.0
Bandwidth	at 850nm	MHz.km	≥200	≥500	≥1500	≥3500
	at 1300 nm		≥500	≥500	≥500	≥500
Numerical Aperture		-	0.275 ± 0.015	0.20 ± 0.015	0.20 ± 0.015	0.20 ± 0.015
Core Diameter		μm	62.5 ± 3.0	50 ± 3.0	50 ± 3.0	50 ± 3.0
Cladding Diameter		μm	125 ± 2.0	125 ± 2.0	125 ± 2.0	125 ± 2.0
Cladding Non-circularity		%	≤2.0	≤2.0	≤2.0	≤1.0
Core/Cladding Concentricity Error		μm	≤3.0	≤3.0	≤3.0	≤3.0
Coating Diameter		μm	245 ± 15	245 ± 15	245 ± 15	245 ± 15