

MARINE FIBER OPTIC TIGHT BUFFER ARMORED CABLE

LSZH CABLE



Description

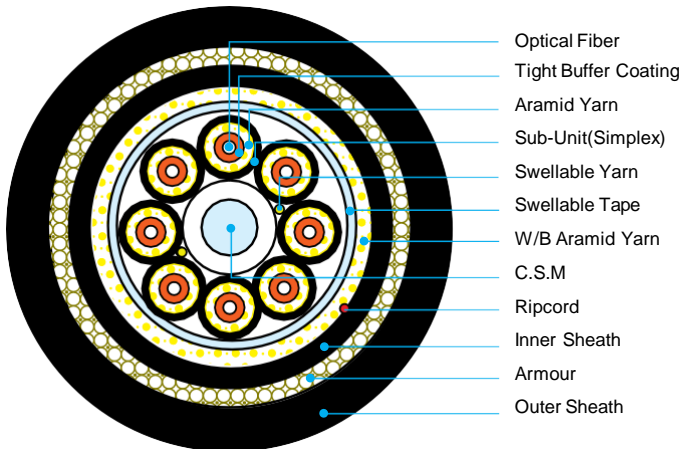
- Low-Smoke Zero-Halogen
- Flame Retardant, Breakout Type Cable
- Armored, Tight-Buffer, 2 ~ 24C
- NEK606, IEC 60092-353

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
- Breakout type cable
- Galvanized steel armor for increased mechanical protection
- Operating Temperature: -40°C ~ 70°C
- LSZH thermoset UV-resistant, oil-resistant, sunlight-resistant, sheath
- Gigabit Ethernet compliant
- ABS Approval Certificate 05-SE60505-X
- DNV Type Approval Certificate E-9401



Cable Properties

Tensile Strength (IEC 60794-1-2E1)

Installation	600 N
Operation	500 N

Crush (IEC 60794-1-2E3)

2000 N/10cm

Impact (IEC 60794-1-2E4)

15 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

Flame Characteristic

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