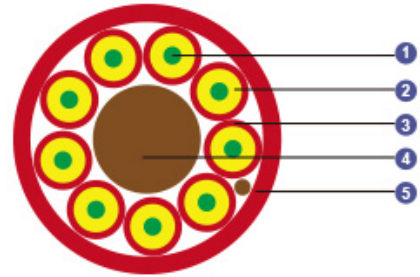


**Indoor Optical Fiber Cables with Central Strength**



<b>Application</b>	These optical fiber cables are designed to data transmission in ship and specially in cruise ship where low smoke, halogen free and flame retardant cables are required to increase safety on board, suitable for flexible installation on and below deck of commercial ships without constant exposure to oil, grease and other lubricants.		
<b>Standards</b>	IEC 60092-350/351/352/353/359/370/376 IEC 60332-1-2 IEC 60332-3-22 IEC 60754-1/2 IEC 61034		
<b>Construction</b>			
<b>Optical Fiber</b>	Semi tight buffered or tight buffer.		
<b>Strain Relief Elements</b>	Aramid.		
<b>Subcable Sheath</b>	Halogen-free, flame-retardant compound.		
<b>Central Strength Member</b>			
<b>Outer Sheath</b>	SHF1.		
<b>Fiber Specification</b>			
		G50/125	G62.5/125
			E9/125
<b>Geometry/Mechanical Properties</b>			
<b>Core Diameter</b>	µm	50 ± 2.5	62.5 ± 3
<b>Mode Field Diameter (at 1310 nm)</b>	µm		9.2 ± 0.4
<b>Cladding Diameter</b>	µm	125 ± 2	125 ± 1
			125 ± 2
<b>Coating Diameter</b>	µm	245 ± 10	245 ± 5
			245 ± 10
<b>Core Non-circularity</b>	%	< 5	< 5
<b>Cladding Non-circularity</b>	%	< 1	< 1
			< 1

<b>Core/Clad Concentricity Error</b>	µm	< 1.5	< 1.5	< 0.8			
<b>Eccentricity of Coating</b>	µm	< 10	< 10	< 10			
<b>Screen Test</b>		≥100 kpsi	≥100 kpsi	≥100 kpsi			
<b>Transmission Properties</b>		OM2	OM1	OS1			
<b>Wavelength</b>	nm	850	1300	850	1300	1310	1550
<b>Attenuation Max.</b>	dB/km	2.7	0.8	3.2	0.9	0.36	0.22
<b>Bandwidth Min.</b>	MHz. km	500	1000	250	600		
<b>Effective Group of Refraction</b>		1.483	1.478	1.497	1.493	1.4695	1.4701
<b>Numerical Aperture</b>		0.200 ± 0.015		0.275 ± 0.015			
<b>Dispersion Coefficient Max.</b>	ps/nm.km					3.5	18
<b>Zero Dispersion Wavelength</b>	nm						1300 -1322
<b>Dispersion Slope</b>	ps/nm <sup>2</sup> .km						≤0.092
<b>Cutoff Wavelength (cabled)</b>	nm						≤1250
<b>Polarization Mode Dispersion</b>	ps/km <sup>1/2</sup>						≤0.1

**Mechanical and Thermal Properties**

Bending Radius for Fixed Installations: 15×OD

Temperature Range: -5°C ~ +70°C

**Dimensions and Weight**

Part No.	No. of Optical Fibers	Nominal Overall Diameter mm	Nominal Weight kg/km
UE902-MTA-X-2-H-F-H-CD/VT-A	2	7.5	45
UE902-MTA-X-4-H-F-H-CD/VT-A	4	7.5	50
UE902-MTA-X-6-H-F-H-CD/VT-A	6	9.0	75
UE902-MTA-X-8-H-F-H-CD/VT-A	8	11.0	110

UE902-MTA-X-10-H-F-H- CD/VT-A	10	13.0	160
UE902-MTA-X-12-H-F-H- CD/VT-A	12	14.5	182
UE902-MTB-X-16-H-F-H- CD/VT-A	16	14.0	160
UE902-MTB-X-18-H-F-H- CD/VT-A	18	14.5	175
UE902-MTB-X-20-H-F-H- CD/VT-A	20	16.0	225
UE902-MTB-X-24-H-F-H- CD/VT-A	24	17.5	245
UE902-MTB-X-26-H-F-H- CD/VT-A	26	18.0	260

Note: X: Fiber type (0=Fiber and copper conductors in cable 4=50/125 multi-mode fiber (OM3); 5=50/125 multi-mode fiber (OM2); 6=50/125 multi-mode fiber (OM1); 7=NZDS SM fiber per G.656.; 8=NZDS SM fiber per G.655.; 9=Standard SM fiber per G.652.D)