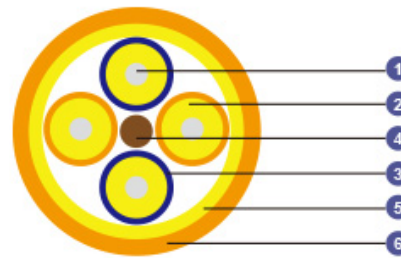


Breakout Fiber Cable



Application	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.		
Standards	IEC 60092-350/351/352/353/359/370/376 IEC 60332-1-2 IEC 60332-3-22 IEC 60754-1/2 IEC 61034		
Construction			
Optical Fiber	Semi tight buffered.		
Strain Relief Elements	Aramid.		
Subcable Sheath	Halogen-free, flame-retardant compound.		
Central Strength Member			
Separator	Taping.		
Strain Relief Elements	Aramid.		
Outer Sheath	SHF1.		
Fiber Specification			
		G50/125	G62.5/125
			E9/125
Geometry/Mechanical Properties			
Core Diameter	µm	50 ± 2.5	62.5 ± 3
Mode Field Diameter (at 1310 nm)	µm		9.2 ± 0.4
Cladding Diameter	µm	125 ± 2	125 ± 1
			125 ± 2
Coating Diameter	µm	245 ± 10	245 ± 5
			245 ± 10

Core Non-circularity	%	< 5	< 5				
Cladding Non-circularity	%	< 1	< 1	< 1			
Core/Clad Concentricity Error	µm	< 1.5	< 1.5	< 0.8			
Eccentricity of Coating	µm	< 10	< 10	< 10			
Screen Test		≥100 kpsi	≥100 kpsi	≥100 kpsi			
Transmission Properties		OM2	OM1	OS1			
Wavelength	nm	850	1300	850	1300	1310	1550
Attenuation Max.	dB/km	2.7	0.8	3.2	0.9	0.36	0.22
Bandwidth Min.	MHz. km	500	1000	250	600		
Effective Group of Refraction		1.483	1.478	1.497	1.493	1.4695	1.4701
Numerical Aperture		0.200 ± 0.015		0.275 ± 0.015			
Dispersion Coefficient Max.	ps/nm.km					3.5	18
Zero Dispersion Wavelength	nm						1300 -1322
Dispersion Slope	ps/nm ² .km						≤0.092
Cutoff Wavelength (cabled)	nm						≤1250
Polarization Mode Dispersion	ps/km ^{1/2}						≤0.1

Mechanical and Thermal Properties

Bending Radius for Fixed Installations: 15×OD

Temperature Range: -20°C ~ +80°C

Dimensions and Weight

Part No.	No. of Optical Fibers	Nominal Overall Diameter mm	Nominal Weight kg/km
UE092-BTA-X-2-H-F-H-CD-A	2	10.1	85
UE092-BTA-X-4-H-F-H-CD-A	4	10.1	85
UE092-BTA-X-6-H-F-H-CD-A	6	11.8	120
UE092-BTA-X-8-H-F-H-CD-A	8	13.6	160

UE092-BTA-X-10-H-F-H-CD- A	10	15.4	200
UE092-BTA-X-12-H-F-H-CD- A	12	17.2	245

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)