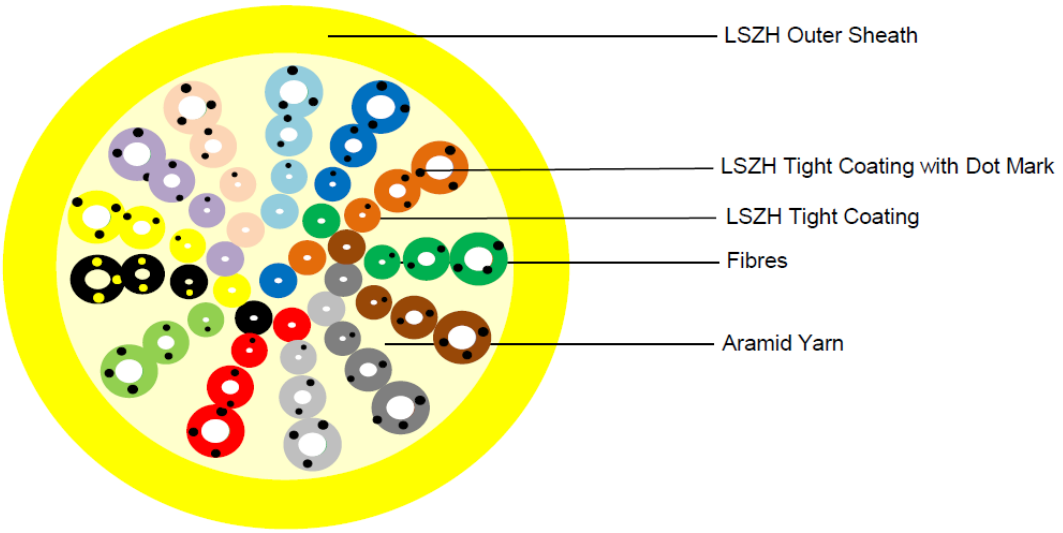
Product Overview

All dielectric optic cable containing SMF & MMF. The offered cables are fully compliant to the relevant IEC specifications.



Product Features and Applications

FEATURES
900 Microns Tight buffered fibres supports fast field installations
Reduce installation time and costs
Easy jacket removal using standard tools
Flexible and Fire-retardant outer sheath with aramid yarn as tensile elements helps in easy installation in space constrained areas
LSZH sheath makes cable suitable for higher fire safety requirement
Small cable diameter & lightweight
Requires no grounding or bonding due to all-dielectric construction

APPLICATIONS
These cables are specifically designed for indoor applications
Mainly used in intra-building backbones & Premises distribution system
Routing between telecommunications rooms and as a riser cable in Multi Storey buildings

Identification Fibre & Loose Tube Colour

Fibre Colour	
Blue	Blue
Orange	Orange
Green	Green
Brown	Brown
Slate	Slate
White	White
Red	Red
Black	Natural
Yellow	Yellow
Violet	Violet
Pink	Pink
Aqua	Aqua

GIGANET NETWORKING SOLUTIONS LTD | 9 De Montfort Street | Leicester | LE1 7GE | UK
Telephone: +44 (0)208 844 2639 Fax: +44(0)844 822 2456 Email: sales@giga-net.co.uk Web: www.giga-net.co.uk

Product Specification and Ordering Information

GIGANET TIGHT BUFFERED FIBRE CABLE							
Cable Physical Characteristics							
FIBRE COUNT	2	4	6	8	12	24	48
Number of Tight Buffer in Cable	2	4	6	8	12	24	48
Cable Diameter (in mm)	4.8	5.0	5.5	6.0	6.8	8.8	11.0
Tolerance ± (mm)	0.4	0.4	0.5	0.5	0.5	0.5	0.6
Cable Weight (kg/km), Tolerance ± 10%	18	22	26	30	40	65	98
Standard Length (meters)	2000 ± 5%						

Cable Mechanical & Environmental Characteristics		
Test	**Standard**	**Product Performance**
Temperature Range (°C)	IEC 60794-1-2-F1	Operation: -20 °C to +70 °C, Installation: -5 °C to +45 °C & Storage: -20 °C to +70 °C
Cable Bending Radius (mm)	IEC 60794-1-2-E11 A	20 X D , D= Cable diameter
Kink Resistance (mm)	IEC 60794-1-2-E10	10 x D, D = Cable Diameter
Repeated Bending	IEC 60794-1-21-E6	30 Cycle, r = 20 X D, 1 Kg Load, D = Cable Diameter
Tensile Force(N)	IEC-60794-1-21-E1	600 N
Crush Resistance (N)	IEC-60794-1-21-E3	600 N [100 X 100 mm] for 60 sec
Impact Resistance	IEC 60794-1-21-E4	Height 0.5 meters, Weight = 0.5 Kg, 3 Nos
Torsion Resistance	IEC-60794-1-21-E7	10 Cycle [± 180°] 1 Kg Weight, Length under Test-2 meters
Flame Test	IEC 60332-1-2	Should Pass
***Note**: After the Test, Change in Attenuation shall be ≤ 0.1 dB/Km for SMF Cable & ≤ 0.2 dB/Km for MMF Cable at 1300 nm.* *No Fibre Break & Damage or Crack on the Cable*		

Cable Transmission Characteristics				
Fibre Type	**Attenuation Coefficient (dB/Km)**			
	850	1300	1310	1550
Single Mode	-	-	≤ 0.38	≤ 0.26
Multimode	≤ 3.5	≤ 1.5	-	-

Ordering Information												
GN-FC-123456												
GN-FC	**1**	**Cable Type**	**2**	**Armour**	**3**	**Mode**	**4**	**Fibres**	**5**	**Inner Sheath**	**6**	**Outer Sheath**
	TB	TIGHT BUFFERED CABLE	U	UNARMORED	OS2	G652D	2	2		-	L	LSZH
					A1	G657A1	4	4				
					A2	G657A2	6	6				
					M3	OM3	8	8				
					M4	OM4	12	12				
							24	24				
							48	48				
Eg:	GN-FC-TBUA124L		Giganet Single Sheath Tight Buffered Unarmoured, G657A1 Single mode, 24 Core, LSZH Sheath Fibre Cable									

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