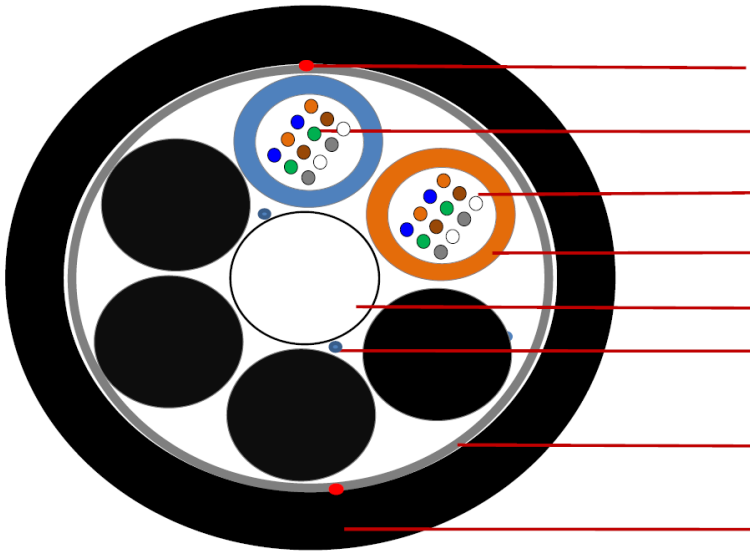


## Product Overview

Giganet Multi tube, unarmoured fibre optic cable containing LWP - SMF in full compliance with ITU-T G.652D. The offered cables are fully compliant to the relevant IEC specifications.

**Cable Cross Sectional Diagram of 24F Cable [Drawing not to scale]**



- Rip Cord - To Open the sheath
- Primary Coated Fibre- G.652D
- Tube filling Compound - Thixotropic Jelly
- Loose Tube - PBTP
- Central Strength Member - FRP ROD
- Water Swellable Yarn over CSM
- Core wrapped with Water Swellable Tape
- Outer Sheath - LSZH, Black (Thickness = 1.50 mm)

## Product Features and Applications

FEATURES
Single mode fibers in full compliance with ITU-T G.652D.
Non-metallic and anti-buckling element FRP rod used as Central Strength Member
Loose buffer tubes fully filled with Thixotropic Jelly and Fibres
Loose buffer tubes S-Z Stranded
Cable core is Dry (WS yarn over CSM)
Cable core is wrapped with water swellable tape
UV Stabilized outer sheath LSZH, Black
Rip cord to open the sheath
Flexible buffer tubes provide easy fibre routing inside closure

APPLICATIONS
Suitable for Indoor/Outdoor applications

## Identification Fibre & Loose Tube Colour

Fibre Colour	Loose Tube Colour	Filler Colour
Blue	Blue	Black
Orange	Orange	
Green	Green	
Brown	Brown	
Slate	Slate	
White	White	
Red	Red	
Black	Black	
Yellow	Yellow	
Violet	Violet	
Pink	Pink	
Aqua	Aqua	

**Product Specification and Ordering Information**

**GIGANET SINGLE SHEATH UNARMoured MULTI LOOSE TUBE FIBRE CABLE**

**Cable Physical Characteristics**

FIBRE COUNT	xx	24	48	72	96	144
Number Of Fibres in each Loose Tube	12					
Number of Loose Tube in each cable		2	4	6	8	12
Number of Filler (if required)		4	2	0		
Number of SZ	1					
Cable Diameter (in mm)		10.0			11.2	14.0
Tolerance ± (mm)	0.5					
Nominal Cable Weight (kg/km)		100			130	190
Standard Length (meters)	4000 ± 5%					

**Cable Mechanical & Environmental Characteristics**

Test	Standard	Product Performance					
Temperature Range (°C)	IEC-60794-1-22-F1	Installation	-5°C to +50°C	operation	-20°C to +60°C	storage	-20°C to +60°C
Cable Bending Radius (mm)	IEC-60794-1-21-E11 A & B	20 X D , D= Cable diameter					
Tensile Force (N)	IEC-60794-1-21-E1	Up to 72F – 1000 N 96F & 144F – 2400 N					
Impact Resistance (Nm)	IEC 60794-1-21-E4	10 Nm					
Crush Resistance (N)	IEC-60794-1-21-E3 A	1000 N (100 mm X 100 mm)					
Torsion Resistance	IEC-60794-1-21-E7	(± 180°), L= 2 Mtr					
Water Penetration	IEC 60794-1-22-F5 B	1 Meter Water Head, 3 Meters Cable Sample, 24 Hours					
Flame Retardant Test	IEC 60332-1-2	Pass					
Halogen Acid Gas Generation	IEC 60754-1	0.5% Maximum					
Smoke Density rating %	ASTM D 2843	20% Maximum					

**Cable Transmission Characteristics**

Fibre Type		Attenuation Coefficient (dB/Km)				PMD	Cable Cut-Off	MFD
		850	1300	1310	1550			
Single Mode	G.652D	-	-	≤ 0.35	≤ 0.22	ps/sqrt.km	nm	µm
						≤ 0.2	≤ 1260	9.2 ± 0.4



**FIBRE OPTIC CABLING SYSTEM**  
**Giganet Single Sheath Unarmoured**  
**Multi Loose Tube Fibre Cable**

**Ordering Information**

**GN-FC-123456**

GN-FC	1	Cable Type	2	Armour	3	Mode	4	Fibres	5	Inner Sheath	6	Outer Sheath
	MT	MULTI LOOSE TUBE	U	UNARMORED	OS2	G652D	24	24		-	P	PE
			C	CST	A1	G657A1	48	48			L	LSZH
			S	SWA	A2	G657A2	72	72				
					M3	OM3	96	96				
					M4	OM4	144	144				
					M5	OM5						
Eg:	GN-FC-MTUOS224L		Giganet Single Sheath Multi Loose Tube Unarmoured, G652D Singlemode, 24 Core, LSZH Sheath Fibre Cable									