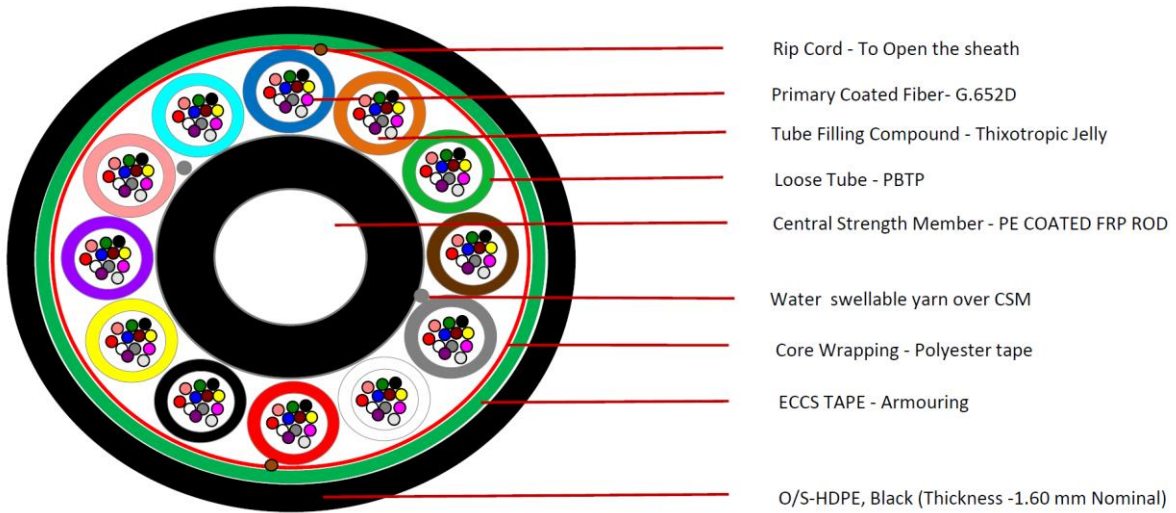


Product Overview

Giganet Outdoor Cable, Armoured 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 144F Cable [Drawing not to scale]



Product Features and Applications

FEATURES
Enhance low water peak 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
ECCS Tape (Chrome coated steel tape) armouring.
UV Stabilized HDPE outer sheath, Black
Rip cord to open the sheath
Single layer stranded construction
Corrugated steel tape acts as protection against Rodents mechanical damage
Flexible buffer tubes provide easy Fibre routing inside closure

APPLICATIONS
Suitable for Outdoor applications
Applicable in areas with particularly high mechanical loads

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 CST ARMoured MULTI LOOSE TUBE FIBRE CABLE

Cable Physical Characteristics

FIBRE COUNT	xx	36	48	72	96	144
Number Of Fibres in each Loose Tube	12					
Number of Loose Tube in each cable		3	4	6	8	12
Number of Filler (if required)		3	2	0		
Cable Diameter (in mm)		11.5			12.8	15.5
Tolerance ± (mm)	0.5					
Nominal Cable Weight (kg/km)		125.0			158.0	222.0
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 – 1700 N 96F & 144F – 3000 N					
Impact Resistance (Nm)	IEC 60794-1-21-E4	10 Nm					
Crush Resistance (N)	IEC-60794-1-21-E3	2000 N (100 mm X 100 mm)					
Torsion Resistance	IEC-60794-1-21-E7	10 Cycle (± 180°)					
Water Penetration	IEC 60794-1-22-F5 B	1 Meter Water Head, 3 Meters Cable Sample, 24 Hours					

Cable Transmission Characteristics

Fibre Type		Attenuation Coefficient (dB/Km)				PMD	Cable Cut-Off	MFD
		850	1300	1310	1550			
Single Mode	G.652D	-	-	≤ 0.36	≤ 0.22	ps/sqrt.km	nm	µm
						≤ 0.2	≤ 1260	9.2 ± 0.4

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	36	36		-	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-MTCOS248P		Giganet Single Sheath Multi Loose Tube CST Armoured, G652D Singlemode, 48 Core, PE Sheath Fibre Cable									

Note: LSZH Sheath Optical Fibre Cable is provided based on the project requirements.