

DUCT | UNARMoured (Optical Fiber Cables)

Unitube Unarmoured Cable: Up to 24F

Multi-tube Single Sheath Unarmoured Cable: Up to 288F

Multi-tube Double Sheath Unarmoured Cable: Up to 288F

Key Features

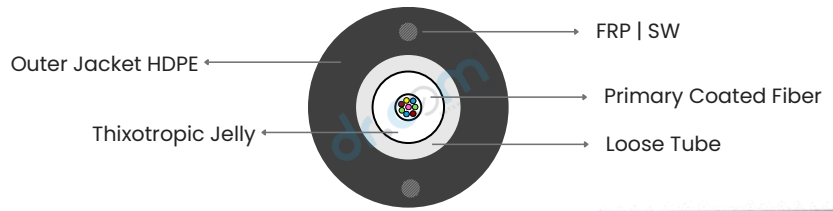
- **UV Stabilized HDPE Outer Sheath** for protection against environmental exposure and long service life.
- **FRP (Fiber Reinforced Plastic) strength member** used for non-metallic reinforcement and improved tensile strength.
- **Loose tubes filled with thixotropic jelly** to protect optical fibers from moisture and mechanical stress.
- **Supports multiple fiber types** including Singlemode (G.652D, G.655, G.657) and Multimode (OM1, OM2, OM3, OM4).
- **Compliant with international standards** such as IEC 60794, IEC 60793, ITU-T G.652, G.655, G.657, and Telcordia GR-20.
- **Wide operating temperature range** typically from -30°C to +70°C for reliable outdoor performance.



*Images are for representation purpose only.

UNI-TUBE

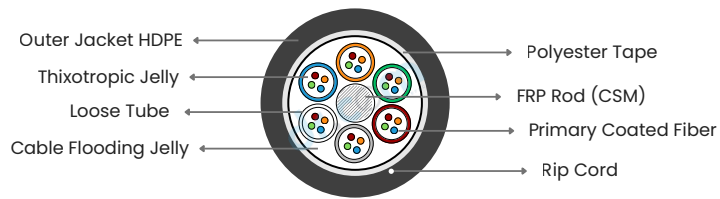
UNARMoured CABLE



Specification

Cable Type	Single loose tube unarmoured cable			
Reference Standard	IEC 60794, IEC 60793, ITU-T G.650, G.652, G.655, G.657, Telcordia GR-20			
FRP Steel Wire	2			
Yarn	2 GFR			
Fiber Capacity	2F – 24F			
Strength Member	Non-metallic FRP rod embedded in sheath			
Tube Structure	Single loose tube filled with thixotropic jelly			
Core Filling	Jelly filled			
Core Wrapping	Not specifically mentioned			
Jacket	UV stabilized HDPE			
Cable Diameter	Small cable diameter			
Installation Type	Suitable for duct installation			
Network Applications	CATV and other networks			
Fiber Types Supported	SM: G.652D, G.655, G.657; MM: OM1, OM2, OM3, OM4			
Temperature (Operating)	-30°C to +70°C			
Installation Temperature	-20°C to +70°C			
Optional Features	Metallic strength members, composite fibers, customization			
Technical Data	Fiber Count	2F	4F-12F	24F
	Outer Diameter	4.5mm - 6.0mm	5.5mm - 6.5mm	6.5mm - 8.0mm
	Weight (kg/km)	18 kg - 35 kg ± 10%	25 kg - 35 kg ± 10%	35 kg - 55 kg ± 10%
Tensile Strength (N)	Temporary	350	350	350
	Permanent	175	175	175
Bending Radius	Temporary	15D	15D	15D
	Permanent	20D	20D	20D
Physical Properties	Cable length	2 km & above		1 km & above
	Packing	Drum		Coil
Printing Details	Available in Standard or Customised Printing Options			

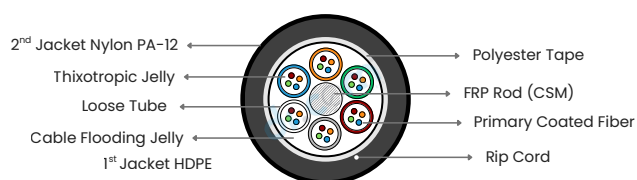
MULTI-TUBE SINGLE SHEATH UNARMoured CABLE



Specification

Cable Type	Multi loose tube unarmoured cable				
Reference Standard	IEC 60794, IEC 60793, ITU-T G.650, G.652, G.655, G.657, Telcordia GR-20				
FRP	1				
Yarn	GFR as per design				
Fiber Capacity	6F – 288F				
Strength Member	Central FRP rod (CSM)				
Tube Structure	Multiple loose tubes filled with thixotropic jelly				
Core Filling	Flooding jelly filled core				
Core Wrapping	S/Z core wrapped with polyester tape				
Jacket	UV stabilized LSZH HDPE				
Cable Diameter	Moderate diameter				
Installation Type	Suitable for blowing in ducts and alongside power lines				
Network Applications	Local loop, metro, long-haul and broadband networks				
Fiber Types Supported	SM: G.652D, G.655, G.657; MM: OM1, OM2, OM3, OM4				
Temperature (Operating)	-30°C to +70°C				
Installation Temperature	-20°C to +70°C				
Optional Features	Semi Dry core, aramid/glass yarns, ripcord, FR-PVC/LSZH				
Technical Data	Fiber Count	6F - 72F	98F	144F	288F
	Outer Diameter	10mm ± 0.5mm	11mm ± 0.5mm	14mm ± 1.0mm	17.5mm ± 1.0mm
	Weight (kg/km)	80-100 kg ± 10%	120 kg ± 10%	175 kg ± 10%	245 kg ± 10%
Tensile Strength (N)	Temporary	1000	1600	1600	1600
	Permanent	500	800	800	800
Bending Radius	Temporary	15D	15D	15D	15D
	Permanent	20D	20D	20D	20D
Physical Properties	Cable length	2 km & above			
	Packing	Drum			
Printing Details	Available in Standard or Customised Printing Options				

MULTI-TUBE DOUBLE SHEATH UNARMoured CABLE



Specification

Cable Type	Multi loose tube double sheath unarmoured cable				
Reference Standard	IEC 60794, IEC 60793, ITU-T G.650, G.652, G.655, G.657, Telcordia GR-20				
FRP	1				
Yarn	GFR as per design				
Fiber Capacity	6F – 288F				
Strength Member	Central FRP rod with additional protection				
Tube Structure	Multiple loose tubes with gel filling				
Core Filling	Flooding jelly filled core				
Core Wrapping	Core wrapped with polyester tape				
Jacket	1 st Jacket - UV stabilized LSZH HDPE		2 nd Jacket - Nylon PA-12		
Cable Diameter	Larger diameter				
Installation Type	Suitable for ducts and harsher environments				
Network Applications	Long-haul backbone and high fiber count networks				
Fiber Types Supported	SM: G.652D, G.655, G.657; MM: OM1, OM2, OM3, OM4				
Temperature (Operating)	-30°C to +70°C				
Installation Temperature	-20°C to +70°C				
Optional Features	Dry core, metallic CSM, aramid/glass yarns, ripcord, FR-PVC/LSZH				
Technical Data	Fiber Count	6F - 72F	98F	144F	288F
	Outer Diameter	10mm ± 0.5mm	11mm ± 0.5mm	14mm ± 1.0mm	17.5mm ± 1.0mm
	Weight (kg/km)	80-100 kg ± 10%	120 kg ± 10%	175 kg ± 10%	245 kg ± 10%
Tensile Strength (N)	Temporary	1000	1600	1600	1600
	Permanent	500	800	800	800
Bending Radius	Temporary	15D	15D	15D	15D
	Permanent	20D	20D	20D	20D
Physical Properties	Cable length	2 km & above			
	Packing	Drum			
Printing Details	Available in Standard or Customised Printing Options				

Fiber Transmission Performance

Parameters	Multimode				Single Mode
	62.5	50	50	50	9
Fiber Core Diameter	62.5	50	50	50	9
fiber Category	OM1	OM2	OM3	OM4	G.652D
Wavelengths(nm)	850 1300	850 1300	850 1300	850 1300	1310 150 1625
Maximum Attenuation (db/km)	3.4 1.0	3.0 1.0	3.0 1.0	3.0 1.0	0.36 0.23 0.26
Bandwidth (MHz*km) 850/1300	200 500	500 500	1500 500	3500 500	NA

Manufacturing Units

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