

## MICRO DUCT (Optical Fiber Cables)

**Uni-tube Micro Duct Cable:** Up to 12F

**Multi-tube Micro Duct Cable:** Up to 24F

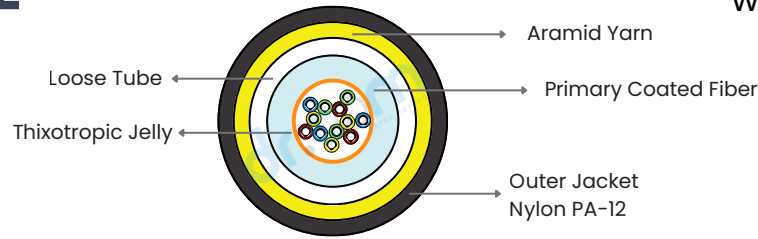
### Key Features

- **Optimized for Air-Blown Installation:** Designed for smooth and efficient blowing through micro duct systems.
- **Compact & Lightweight Design:** Small diameter enables installation in high-density duct networks.
- **High Fibre Density:** Supports more fibres within limited space for scalable network expansion.
- **Low Friction Outer Sheath:** Special sheath design ensures easy blowing and reduced installation effort.
- **Flexible & Robust Construction:** Allows easy handling while maintaining structural integrity during deployment.
- **Suitable for Long-Distance Blowing:** Engineered for extended installation lengths in micro duct infrastructure.



\*Images are for representation purpose only.

# UNI-TUBE MICRO DUCT CABLE

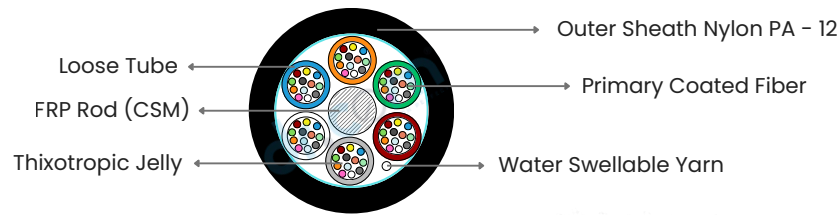


## Specification



Cable Type	Uni-tube Micro Duct Fibre Optic Cable		
Reference Standard	IEC 60794, ITU-T G.652D, G.657A1		
FRP	NA		
Yarn	Aramid Yarn		
Fiber Capacity	Up to 24 Fibers		
Structure	Single Loose Tube (Uni-tube)		
Tube Construction	Gel-filled loose tube with optical fibres		
Tube Filling	Water blocking gel		
Core Filling	Dry core / Water blocking yarn		
Core Wrapping	Not Required / Light binding		
Jacket	Nylon / PE / LSZH (Low friction)		
Key Applications	Micro duct blowing, access network, last-mile deployment		
Fiber Types Supported	SM: G.652D, G.657; MM: OM1, OM2, OM3, OM4		
Temperature (Operating)	-30°C to +70°C		
Installation Temperature	-20°C to +70°C		
Special Characteristics	Small diameter, high blowing efficiency, lightweight design		
Technical Data	Fiber Count	2F - 12F	24F
	Outer Diameter	3.8mm ± 0.20mm	5.6mm ± 0.20mm
	Weight (kg/km)	11 kg ± 10%	24 kg ± 10%
Tensile Strength (N)	Temporary	500	250
	Permanent	800	400
Bending Radius	Temporary	10D	10D
	Permanent	15D	15D
Physical Properties	Cable length	1 km & above	2 km & above
	Packing	Coil	Drum
Printing Details	Available in Standard or Customised Printing Options		

# MULTI-TUBE MICRO DUCT CABLE



## Specification

Cable Type	Multi-tube Micro Duct Fibre Optic Cable			
Reference Standard	IEC 60794, ITU-T G.652D, G.657A1			
FRP	1			
Yarn	Aramid Yarn / Water Blocking Yarn			
Fiber Capacity	Up to 144 Fibers   288F			
Structure	Stranded Multi Loose Tube			
Tube Construction	Multiple gel-filled loose tubes (S-Z stranded)			
Tube Filling	Waterproof gel filled tubes			
Core Filling	Water blocking yarn / Dry core			
Core Wrapping	Water blocking tape			
Jacket	HDPE / PA / Nylon (Low friction)			
Key Applications	Metro networks, backbone, high-density fibre deployment			
Fiber Types Supported	SM: G.652D, G.657; MM: OM1, OM2, OM3, OM4			
Temperature (Operating)	-30°C to +70°C			
Installation Temperature	-20°C to +70°C			
Special Characteristics	High fibre density, robust structure, long-distance blowing capability			
Technical Data	Fiber Count	Up to 72F	96F	144F
	Outer Diameter	7.5 mm ± 0.5 mm	9.0 mm ± 0.5 mm	11.0 mm ± 1.0 mm
	Weight (kg/km)	80 kg ± 10%	95 kg ± 10%	110 kg ± 10%
Tensile Strength (N)	Temporary	500	1000	1500
	Permanent	250	500	750
Bending Radius	Temporary	15D	15D	15D
	Permanent	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)	3.5   1.5	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

Plot No. 67 & 70, Damanganga Industrial Park-II, New Survey  
 No 3377 & 3380, Old Survey No 399/3/P, 1, Village - Dungra,  
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