

Micro Duct OPTICAL FIBER CABLES

- Uni-tube Micro Duct Cable
- Multi-tube Micro Duct Cable

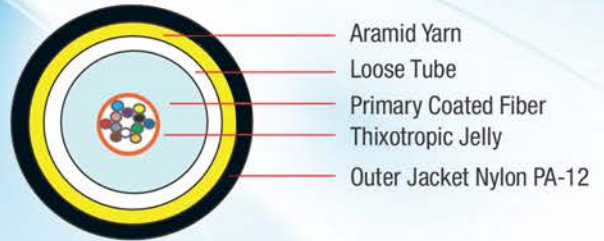


Micro Duct Cables

UNI-TUBE MICRO DUCT CABLE (Up to 12F)



FIBER & TUBE COLOUR CODING



APPLICATIONS & FEATURES

- Suitable for micro duct installation
- All dielectric design
- Light in weight
- Small cable diameter
- Ease of installation
- Available upto 24 fibers

OPTIONS AVAILABLE ON REQUEST

- HDPE/ LSZH /Composite Fibers/Customized designs

INTERNATIONAL STANDARDS

- IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- EN 187000; Telecordia GR-20 issue 3rd May, 2008

CONSTRUCTION DETAILS

- Single loose tube filled with thixotropic jelly and centrally placed in the cable
- Aramid yarns as Peripheral Strength Member(PSM)
- Termite resistance Nylon PA-12 orange outer sheath
- Fiber count 2F-24F (SM Fiber G.652D, G.655, G.657 and Multimode OM1, OM2, OM3 & OM4

ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- Operating Temperature : -30 °C to + 70 °C
- Storage Temperature : -30 °C to + 70 °C
- Installation Temperature : -20 °C to + 70 °C

DRUM LENGTH

- 2000 meters ± 10%
- As per customer's requirement

TECHNICAL DATA

Fiber Count	Outer Diameter (Nominal)	Weight (kg/km)	Tensile Strength (N)		Bending Radius	
			Temporary	Permanent	Temporary	Permanent
2F-12F	3.8 mm (0.15 in)	11	500	250	10D	15D
24F	5.6 mm (0.22 in)	24	800	400	10D	15D

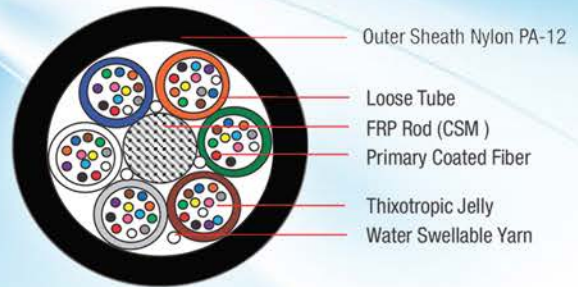
FIBER TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	G.652D
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G.652D
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
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	N/A



Micro Duct Cables

MULTI-TUBE MICRO DUCT CABLE (Up to 24F)



FIBER & TUBE COLOUR CODING



APPLICATIONS & FEATURES

- Suitable for blowing in micro ducts
- Local loop, metro, long-haul and broadband network
- Light weight and flexible
- Available upto 144 fibers

OPTIONS AVAILABLE ON REQUEST

- Wet core construction/Composite fibers/Customized designs/Aramid Yarns/Rip Cord (s) / HDPE/LSZH

INTERNATIONAL STANDARDS

- IEC 60794; IEC 60793; ITU-T Rec. G.650; ITU-T Rec. G.652;
- ITU-T Rec. G.655; ITU-T Rec. G.656; ITU-T Rec G.657;
- EN 187000; Telecordia GR-20 issue 3rd May, 2008

CONSTRUCTION DETAILS

- Non metallic, anti-buckling FRP rod as Central Strength Member (CSM)
- Loose tube containing coloured fibers and filled with thixotropic jelly
- Dry core construction with Water Swellable (WS) yarn
- Termite resistance Nylon PA-12 orange outer sheath
- Fiber count 24F-144F (SM Fiber G.65)

ENVIRONMENTAL CONDITIONS (IEC 60794-1-2-F1)

- Operating Temperature : -30 °C to + 70 °C
- Storage Temperature : -30 °C to + 70 °C
- Installation Temperature : -20 °C to + 70 °C

DRUM LENGTH

- 2000 meters ± 10%
- As per customer's requirement

TECHNICAL DATA

Fiber Count	Outer Diameter (Nominal)	Weight (kg/km)	Tensile Strength (N)		Bending Radius	
			Temporary	Permanent	Temporary	Permanent
Upto 72F	5.8 mm (0.23 in)	27	500	250	15D	20D
96F	6.8 mm (0.27 in)	40	1000	500	15D	20D
144F	9.0 mm (0.35 in)	73	1500	750	15D	20D

FIBER TRANSMISSION PERFORMANCE

Parameters	Multimode				Single Mode
	OM1	OM2	OM3	OM4	
Fiber Core Diameter (µm)	62.5	50	50	50	9
Fiber Category	OM1	OM2	OM3	OM4	G.652D
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	1310/1550/1625
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	N/A





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