

Fiber Optic Cable Indoor Outdoor Tight-Buffered

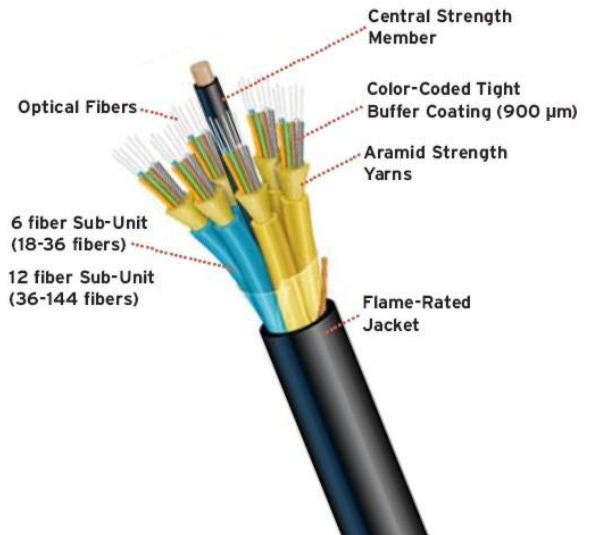
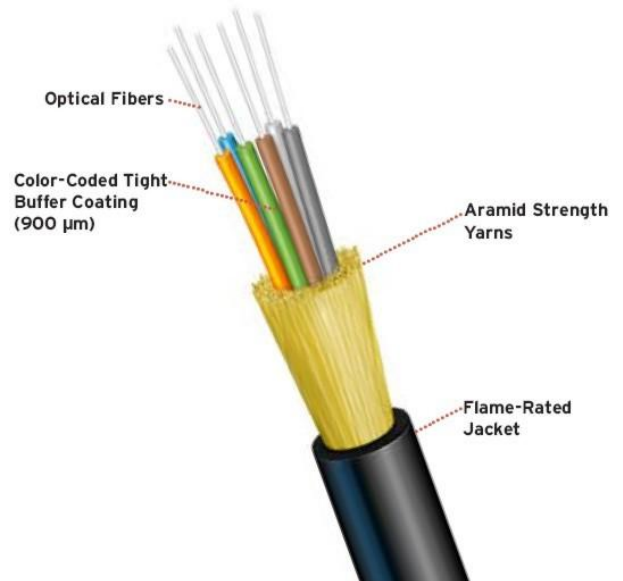
Description

DME PROLINK's Indoor Outdoor Tight-Buffered Distribution cable is designed specifically for inter-building and intra-building backbones in duct and riser applications. The tight buffered construction facilitates easier termination for low-fiber count applications in Local Area Network (LAN) and eliminates need for any fan-out kits.

Circular construction and a Kevlar yarn strength member make this cable ideal for installation in conduits, ducts and in-house.

Features & Benefits

- ✓ All Dielectric construction and hence no grounding or bonding required.
- ✓ UV and microbe resistant
- ✓ Dry cable core by means of Water Swell-able elements.
- ✓ Smaller diameter and bend radius
- ✓ Low Smoke Zero Halogen.
- ✓ Applications: Direct Buried, Duct, Vertical Riser and in Horizontal pathways.
- ✓ Single mode Fibers available in G.652D and G.657B used mainly in FTTH deployment.



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Technical Parameters:

Cable Count	Out sheath Diameter	Tight buffer Diameter	Weight	Minimum allowable Tensile Strength (N)		Minimum allowable Crush Load (N/100mm)		Minimum Bending Radius (MM)	
				Short term	Long term	Short term	Long term	Short term	Long term
Core	(MM)	(MM)	(KG)						
02	3.0	0.9	15.0	600	200	1000	200	20D	10D
04	4.0	0.9	22.0	600	200	1000	200	20D	10D
06	4.0	0.9	23.0	600	200	1000	200	20D	10D
08	5.0	0.9	27.0	600	200	1000	200	20D	10D
10	5.0	0.9	30.0	600	200	1000	200	20D	10D
12	6.0	0.9	35.0	600	200	1000	200	20D	10D

Optical Specification

Grade	OM1	OM1	OM2	OM3	OM3	OS1
Glass Type	62.5/125 MM	62.5/125 MM	50/125 MM	50/125 MM	50/125 MM	9/125 MM
Operating Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1550
Min. OFL ¹ Bandwidth (MHz-km)	200/500	200/500	500/500	1500/500	3000/500	–
Min. Laser ² Bandwidth (MHz-km)	220/500	385/500	510/500	2000/500	4700/500	–
Max. Attenuation (dB/km)	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	3.50/1.25	0.80/0.50
100 Mbit Fast Ethernet						
Min. Link Length (meters S/L/E ³)	300/2000	300/2000	300/2000	300/2000	300/2000	5000/–
1 Gigabit Ethernet						
Min. Link Length (meters S/L/E ³)	300/550	500/1000	600/600	1000 ⁴ /600	1000 ⁴ /600	5000/–
10 Gigabit Ethernet						
Min. Link Length (meters S/L/E ³)	33/300	33/300	82/300	300/300	550/300	10,000/40,000

1 OFL – Overfilled Launch

2 Effective Modal Bandwidth, determined by RML or DMD performance specifications

3 S/L/E – Short wavelength (850 nm) / Long wavelength (1310 nm) / Extra long wavelength (1550 nm)

4 >2000 meters for engineered links

D112x-nmjpssc

TECHNICAL DATA



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 Middle East - +971 (4) 8118000
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Operating Range Over:								
10G Ethernet Application	Type of Fiber	OM1		OM2	OM3			SM
	Core / Cladding (µm)	62.5 /125		50/125	50 /125			9 /125
	Modal Bandwidth (MHz.Km)	160	200	500	400	500	2000	
	Wavelength (nm)	Distance						
10GBASE-SR	850 Serial	26m	33m	82m	-	-	300m	-
10GBASE-SX	850						300m	-
10GBASE-LX	1310		-	-			-	10 Km
10GBASE-LX4	1310 WWDM	300m*		300m*	240m	300m*	-	10 Km
10GBASE-LR	1310 Serial	-	-	-	-	-	-	10 Km
10GBASE-ER	1550 Serial	-	-	-	-	-	-	40 Km
10GBASE-EX	1550	-	-	-	-	-	-	40 Km
10GBASE-ZR	1550	-	-	-	-	-	-	80 Km

* 500 MHz.Km Modal Bandwidth @ 1300nm CWDM required for 300m distance

ITU Standards:

The ITU defines 4 classes of G657 fibre as below:

- G657A1 –10mm minimum bend radius, other specs as G652
- G657A2 –7.5mm minimum bend radius, other specs as G652
- G657B2 –7.5mm minimum bend radius, other specs may deviate from G652
- G657B3 –5mm minimum bend radius, other specs may deviate from G652



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D	1	1	2	x	-	n	m	j	p	s	C
				x	Pin assigned by ECS						
				0-9	Inventory Management Index						
				n	Number of Fibers						
				02 - 72	02 - 72 Fibers						
				m	Mode						
				0	OM1						
				1	OM2						
				2	OM3						
				3	OM4						
				6	OS1						
				7	OS2						
				j	Sheath Construction						
				LS	LSZH						
				p	Physical Construction						
				JF	Jelly-Filled						
				ST	Steel-Tape Armored						
				RP	Rodent-Proof						

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D	1	1	2	x	-	n	m	j	p	s	C
p		Physical Construction									
FR		Fire-Retardant									
0		Not Applicable									
s		Specification									
2D		G.652D									
7A1		G.657A1									
7A2		G.657A2									
7B2		G.657B2									
7B3		G.657B3									
0		Not Applicable for MM									
c		Sheath Color									
BK		Black									

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