

Dry Loose Tube Fiber Optic Cable

Another CommScope Cable Improvement

Craft friendly product solutions are a foremost requirement in today's fast paced world. CommScope engineers are committed to offering evolutionary improvements and easy-to-handle constructions in our fiber product offering. The latest example is our new Dry Loose Tube cable design. This family of gel-free stranded loose tube cables uses all-dry water blocking technology and reduced diameter buffer tubes. The design is completely gel-free, yet it provides full water blocking protection for outside plant applications. The Dry Loose Tube cables are an alternative to standard gel-filled loose tube cables, and meet the requirements of ANSI/ICEA S-87-640; Telcordia GR-20-CORE, issue 2; and EN 187105.



Feature	Benefit
Dry Water Blocking Technology	Decreases cable prep time Eliminates need for potentially hazardous solvents Less consumable materials required Cleaner, improved work environment Improved lifespan of equipment Simplifies work site clean-up
Lightweight Cable Design	Improves ease of handling
Smaller Buffer Tubes	Easier routing inside the enclosure
Small Overall Cable Diameters	Maximizes conduit space Improved reel capacity

Dry vs. Arid-Core® Parameter Comparison

All Dielectric Designs			Armored Designs		
Fiber Count	Diameter Reduction	Weight Reduction	Fiber Count	Diameter Reduction	Weight Reduction
002-060	12.20%	27.08%	002-060	8.51%	17.24%
062-072	13.95%	42.31%	062-072	12.24%	28.26%
074-096	16.33%	45.59%	074-096	14.55%	32.46%
098-120	20.00%	45.98%	098-120	16.39%	33.09%
122-144	17.46%	42.86%	122-144	15.94%	33.73%
146-216	17.46%	52.63%	146-216	15.94%	38.82%
218-288	17.81%	54.33%	218-288	15.19%	40.93%

Single Jacket, Single Armor (LA) Version and Single Jacket, All-Dielectric (LN) Version

Product Type/ Fiber Count	Catalog Number	Subunits	Outer Diameter inch/mm	Minimum Bend Radius		Maximum Tensile Load		Weight	
				Loaded inch/cm	Unloaded inch/cm	Short Term lbs/newtons	Long Term lbs/newtons	lbs/ kft	kg/ km
2 - 60 Fibers	D- XXX -LA- XY -F12NS	5	0.47/11.95	9.4/23.9	4.7/11.95	607/2700	180/800	87	130
	D- XXX -LN- XY -F12NS		0.41/10.5	8.2/21.0	4.1/10.5			48	71
62 - 72 Fibers	D- XXX -LA- XY -F12NS	6	0.49/12.43	9.8/24.9	4.9/12.43	607/2700	180/800	92	137
	D- XXX -LN- XY -F12NS		0.43/10.9	8.6/21.8	4.3/10.9			52	78
74 - 96 Fibers	D- XXX -LA- XY -F12NS	8	0.55/13.99	11.0/28.0	5.5/13.99	607/2700	180/800	114	170
	D- XXX -LN- XY -F12NS		0.49/12.5	9.8/25.0	4.9/12.5			68	102
98 - 120 Fibers	D- XXX -LA- XY -F12NS	10	0.61/15.57	12.2/31.1	6.1/15.57	607/2700	180/800	139	207
	D- XXX -LN- XY -F12NS		0.55/14.1	11.1/28.2	5.5/14.1			87	130
122 - 144 Fibers	D- XXX -LA- XY -F12NS	12	0.69/17.64	13.8/35.3	6.9/17.64	607/2700	180/800	169	252
	D- XXX -LN- XY -F12NS		0.63/16.1	12.6/32.2	6.3/16.1			112	167
146 - 216 Fibers	D- XXX -LA- XY -F12NS	18	0.69/17.64	13.8/35.3	6.9/17.64	607/2700	180/800	152	227
	D- XXX -LN- XY -F12NS		0.63/16.1	12.6/32.2	6.3/16.1			95	141
218 - 288 Fibers	D- XXX -LA- XY -F12NS	24	0.79/20.02	15.7/40.0	7.9/20.02	607/2700	180/800	193	288
	D- XXX -LN- XY -F12NS		0.73/18.5	14.5/37.0	7.3/18.5			127	190

Variables in the Catalog Number

XXX = Total Fiber Count

XY = Fiber Type and Grade

8W LightScope ZWP™ Dispersion-Unshifted,
8M Matched-Clad Singlemode Fiber

6F 62.5µm, FDDI Grade Multimode Fiber
5M LaserCore® 150, 50µm, Multimode Fiber
Matched-Clad Singlemode Fiber

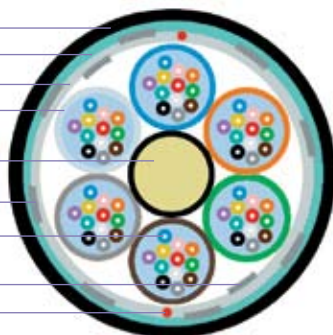
Fiber Identification Colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Other fiber types and dry cable constructions are available upon your request. Please contact Customer Service for additional information.

Dry Stranded Loose Tube Cable

(72 Fiber Armored Version Shown)

- PE Outer Jacket
- Steel Tape Armoring
- Water Swellable Tape
- 2.5mm Gel-Free Buffer Tubes
- Dielectric Strength Member
- Strength Elements
- 250 Micron Fibers
- Binder
- Ripcord (2)



Mechanical Properties

Description	Specification	Test Method
Operating Temperature	-40° to 158°F (-40° to 70°C)	FOTP-3
Installation Temperature	-22° to 140°F (-30° to 60°C)	N/A
Storage Temperature	-40° to 167°F (-40° to 75°C)	N/A
Crush Resistance	250 lbf/in (44 N/mm)	FOTP-41
Impact Resistance	Exceeds	FOTP-25
Flexing	25 Cycles	FOTP-104
Twist Bend	Exceeds	FOTP-85

CommScope Outside Plant Fiber Optic cables are qualified to the requirements of Telcordia GR-20-CORE, Issue 2.

ANSI/ICEA S-87-640-1999 Standard for Optical Fiber Outside Plant Communications Cable



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