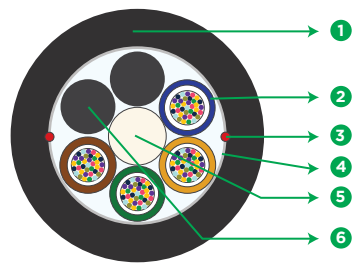


Duct-Lite

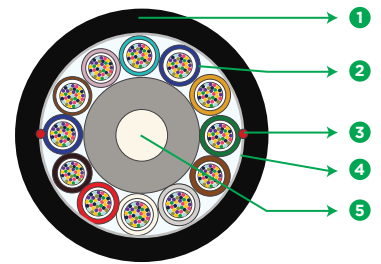
Multitube Gel Free Single Sheath OFC

4F - 432F | Nova - G.657.A1 Single Mode Fiber

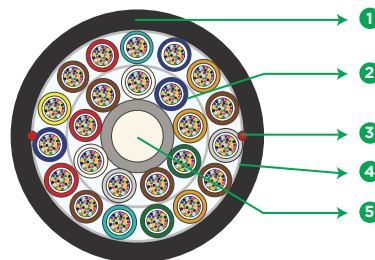
- 1 OUTER JACKET
- 2 GEL FREE LOOSE TUBE
- 3 RIPCORD(S)
- 4 WATER BLOCKING TAPE
- 5 STRENGTH MEMBER
- 6 FILLER



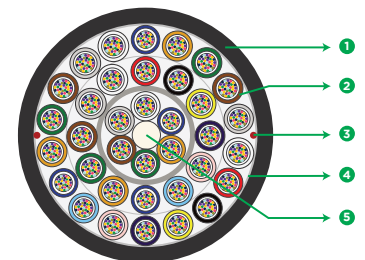
48F



144F



288F



432F

* Typical Construction Diagram - Not to Scale

Features & Benefits

- Multitube design with ripcords for easy and quick mid span access
- Easily removable rugged thermoplastic jacket
- Water-blocking technology for gel free core helps in quicker end preparation
- Flexible, light weight, easy to handle & install
- UV protected

Product Details

STL DUCT-LITE Gel Free Multitube Fiber Optic Cables are suitable for duct applications. DUCT-LITE comes with gel free technology, the buffer tubes contain water swellable yarns and the cable core is surrounded with water-swallowable tape to prevent water ingress in the cable. The buffer tubes are stranded around the central strength member using reverse oscillation stranding method forming the cable core. The cable core is surrounded with thermoplastic sheath making the cable robust and installation friendly.

Cable Performance Standards

Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Printing Details

Printing : STL SM NOVA “FIBER COUNT” DUCT OFC LASER SYMBOL TELEPHONE SYMBOL
“YEAR OF MANUFACTURE” “LENGTH CODE” “FEET MARKING”

Note : The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.

Specifications

Physical Characteristics	
Fiber Count	4-432
Fiber Type	STL NOVA (G.657A1)
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.25
PMD LDV (ps/sqrt.km)	</= 0.1
Fibers per Tube	4 6 8 12
Tube Material	Polypropylene (PP)
Loose tube Size	2.4 mm (typical)
Central Strength Member	FRP (Fiber Reinforced Plastic)
Filler	Thermoplastic material
Core Wrapping	Binder and water swellable tape
No. of Ripcords Below Outer Sheath	2
Outer Sheath Material	UV Proof Black Polyethylene

Fiber Color Sequence (AS per EIA/TIA 598C)

Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
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Specifications

Cable Characteristics							
Product Code	Fiber Count	No. of Tubes	Tube Color Sequence	No. of Fillers	Cable Diameter mm (inch) (±5%)	Cable Weight Kg/Km (lbs./ft.) (±10%)	
DT0004FSN01TFP1US	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	74 (0.049)	
DT0006FSN01TFP1US	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	74 (0.049)	
DT0008FSN01TFP1US	8	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	74 (0.049)	
DT0012FSN01TFP1US	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	78 (0.052)	
DT0024FSN02TFP1US	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	10.6 (0.417)	78 (0.052)	
DT0036FSN03TFP1US	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	10.6 (0.417)	74 (0.050)	
DT0048FSN04TFP1US	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	10.6 (0.417)	74 (0.050)	
DT0060FSN05TFP1US	60	5	Blue, Orange, Green, Brown, Slate, Filler	1	10.6 (0.417)	74 (0.050)	
DT0072FSN06TFP1US	72	6	Blue, Orange, Green, Brown, Slate, White	0	10.6 (0.417)	74 (0.050)	
DT0084FSN07TFP1US	84	7	Blue, Orange, Green, Brown, Slate, White, Red, Filler	1	12.5 (0.484)	88 (0.059)	
DT0096FSN08TFP1US	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	12.5 (0.484)	88 (0.059)	
DT0144FSN12TFP1US	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	0	15.7 (0.622)	145 (0.0981)	
DT0192FSN16TFP1US	192	16	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Filler, Filler	2	15.7 (0.622)	140 (0.094)	
DT0216FSN18TFP1US	216	18	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#	0	15.7 (0.622)	135 (0.091)	
DT0288FSN24TFP1US	288	24	1st Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow 2nd Layer - Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White#, Red#, Black#, Yellow#, Violet#, Rose#, Aqua#	0	18.2 (0.716)	172 (0.115)	
DT0432FSN36TFP1US	432	36	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#, Brown#, Slate#, White# 3rd Layer - Red#, Black#, Yellow#, Violet#, Rose#, Aqua#, Blue##, Orange##, Green##, Brown##, Slate##, White##, Red##, Black##, Yellow##, Violet##, Rose##, Aqua##	0	22.4 (0.881)	240 (0.161)	

Note : # - denotes single black stripe marking via inkjet or co-extrusion, white stripe marking for black loose tube
- denotes double stripe marking.

Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard
Tensile Strength (N) (lbf)	Short Term - 2700 (606.9) Long Term - 900 (202.3)	ICEA 640 FOTP-33
Crush Resistance (N/cm) (lbf/in)	220 (125.6)	ICEA 640 FOTP-41
Impact Strength (Nm) (lbf.in)	5 (44.2)	ICEA 640 FOTP-25
Torsion	±180°	ICEA 640 FOTP-85
Min. Bend Radius (During Installation)	20 D	ICEA 640 FOTP-88
Min. Bend Radius (After Installation)	15 D	ICEA 640 FOTP-88
Water Penetration Test*	1m waterhead, 3m samples, 24 h	ICEA 640 FOTP-82
Temperature Performance	Max. change in attenuation shall be ≤ 0.15 dB/km	ICEA 640 FOTP-3
Installation	-30°C to +70°C	
Operation	-40°C to +70°C	
Storage	-40°C to +70°C	

Note : All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be ≤ 0.05 dB/km for Single Mode Fiber and ≤ 0.3 dB/km for Multimode Fiber.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123; 20,000 \pm 5% (For all Fiber counts)	-0%, +5%	Max 5%, Customer Approval

For additional information please contact your sales representative.

You can also visit our website at www.stl.tech