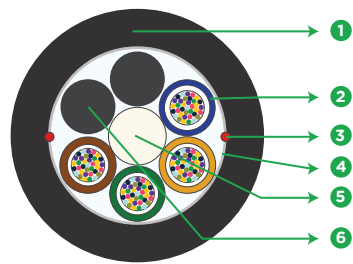


Duct-Lite

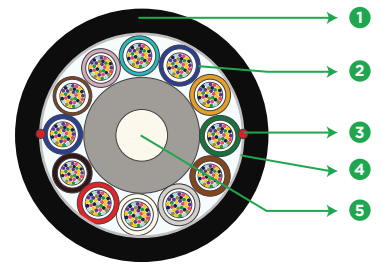
Multitube Gel Free Single Sheath OFC

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

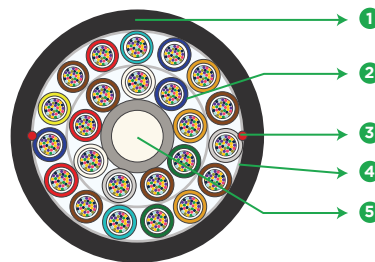
- 1 OUTER JACKET
- 2 GEL FREE LOOSE TUBE
- 3 RIPCORD(S)
- 4 WATER BLOCKING TAPE
- 5 STRENGTH MEMBER
- 6 FILLER



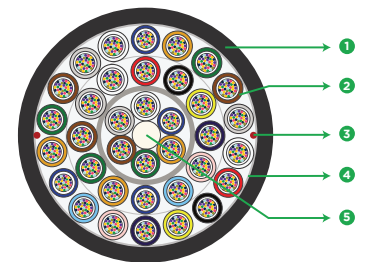
48F



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%)	
D10004SN01FAP10000	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	74 (0.049)	
D10006SN01FAP10000	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	74 (0.049)	
D10008SN01FAP10000	8	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	74 (0.049)	
D10012SN01FAP10000	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	10.6 (0.417)	78 (0.052)	
D10024SN02FAP10000	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	10.6 (0.417)	78 (0.052)	
D10036SN03FAP10000	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	10.6 (0.417)	74 (0.050)	
D10048SN04FAP10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	10.6 (0.417)	74 (0.050)	
D10060SN05FAP10000	60	5	Blue, Orange, Green, Brown, Slate, Filler	1	10.6 (0.417)	74 (0.050)	
D10072SN06FAP10000	72	6	Blue, Orange, Green, Brown, Slate, White	0	10.6 (0.417)	74 (0.050)	
D10084SN07FAP10000	84	7	Blue, Orange, Green, Brown, Slate, White, Red, Filler	1	12.5 (0.484)	88 (0.059)	
D10096SN08FAP10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	12.5 (0.484)	88 (0.059)	
D10144SN12FAP10000	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	0	15.7 (0.622)	145 (0.0981)	
D10192SN16FAP10000	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)	
D10216SN18FAP10000	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)	
D10288SN24FAP10000	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)	
D10432SN36FAP10000	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)	Tolerance	Short Lengths
Wooden Drums	10000; 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