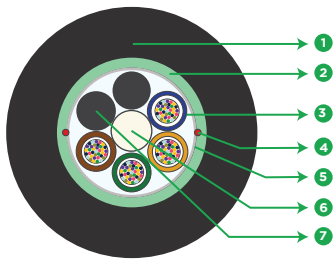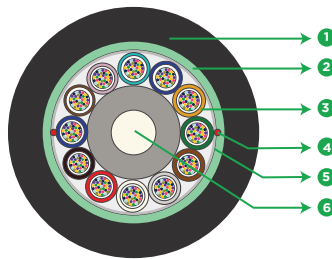# Armor-Lite

Multitube Gel Free Armored OFC
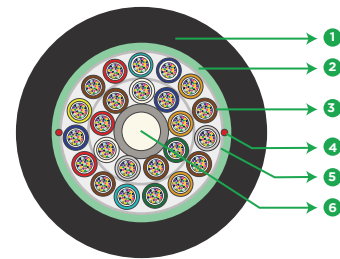### 4F - 288F | OH Lite - G.652.D Single Mode Fiber

6 Elements   **12 Elements**   **24 Elements**

1 OUTER JACKET   **2** CORRUGATED STEEL TAPE   **3** GEL FREE LOOSE TUBE

4 RIPCORD(S)   **5** WATER BLOCKING TAPE   **6** STRENGTH MEMBER   **7** FILLER

* Typical Construction Diagram - Not to Scale

Features & Benefits

- PE outer jacket & Steel tape armor provide rodent protection along with improved crush and impact protection
- The Steel tape enables post installation cable locating
- Dry water-blocking technology for gel free core helps in quicker end preparation
- Easily removable rugged thermoplastic jacket with steel tape
- Flexible, light weight, easy to handle & install

Product Details

STL ARMOR-LITE Gel Free Multitube Single Jacket Steel Tape Armored Cables are suitable for direct burial as well as for duct applications. ARMOR-LITE comes with gel free technology, the buffer tubes contain water swellable yarns and the cable core is surrounded with water-swellable 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. A Corrugated Steel Tape armor surrounds the cable core with a thermoplastic jacket placed over the armor layer making the cable robust and installation friendly.

Cable Performance Standards

Cable complies to the following standards IEC 60793, IEC 60794, ITU-T, RoHS, REACH.

Printing Details

Printing: STL SM "FIBER TYPE" "FIBER COUNT" ARMORED 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.
Any other cable printing can be customized based on customer request and agreement.

Specifications

Physical Characteristics	
Fiber Type	STL Fiber ITU-T G.652.D
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
Central Strength Member	FRP (Fiber Reinforced Plastic)
Tube Material	Polybutylene Terephthalate (PBT)
Loose tube Size	2.4 mm (typical)
Fillers (if required)	Black Thermoplastic Material
Core Wrapping	Binder and water swellable tape
Metallic Armoring	Corrugated Steel Tape
No. of Ripcords Below Tape	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

Cable Design with G.652.D Fiber

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%)
B10004S301FAB10000	4	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.0 (0.47)	125 (0.08)
B10006S301FAB10000	6	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.0 (0.47)	125 (0.08)
B10008S301FAB10000	8	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.0 (0.47)	125 (0.08)
B10012S301FAB10000	12	1	Blue, Filler, Filler, Filler, Filler, Filler	5	12.0 (0.47)	125 (0.08)
B10024S302FAB10000	24	2	Blue, Orange, Filler, Filler, Filler, Filler	4	12.0 (0.47)	125 (0.08)
B10036S303FAB10000	36	3	Blue, Orange, Green, Filler, Filler, Filler	3	12.0 (0.47)	125 (0.08)
B10042S307FAB10000	42	7	Blue, Orange, Green, Brown, Slate, White, Red, Filler	1	13.5 (0.53)	166 (0.11)
B10048S304FAB10000	48	4	Blue, Orange, Green, Brown, Filler, Filler	2	12.0 (0.47)	125 (0.08)
B10060S305FAB10000	60	5	Blue, Orange, Green, Brown, Slate, Filler	1	12.0 (0.47)	125 (0.08)
B10072S306FAB10000	72	6	Blue, Orange, Green, Brown, Slate, White	0	12.0 (0.47)	125 (0.08)
B10084S307FAB10000	84	7	Blue, Orange, Green, Brown, Slate, White, Red, Filler	1	13.5 (0.562)	166 (0.11)
B10096S308FAB10000	96	8	Blue, Orange, Green, Brown, Slate, White, Red, Black	0	13.5 (0.562)	166 (0.11)

Specifications

Cable Design with G.652.D Fiber						
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%)
B10108S309FAB10000	108	9	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow	0	14.3 (0.562)	186 (0.12)
B10120S310FAB10000	120	10	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet	0	15.3 (0.6)	260 (0.17)
B10144S312FAB10000	144	12	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua	0	17.0 (0.67)	246 (0.16)
B10168S314FAB10000	168	14	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Filler#, Filler#, Filler, Filler	4	17.0 (0.67)	228 (0.15)
B10192S316FAB10000	192	16	1st Layer - Blue, Orange, Green, Brown, Slate, White 2nd Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Violet, Rose, Filler, Filler	2	17.0 (0.67)	228 (0.15)
B10288S324FAB10000	288	24	1st Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow 2nd Layer - Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue#, Orange#, Green#	0	19.5 (0.77)	295 (0.19)

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

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard
Tensile Strength (N)(lbf)	Short Term – 2700 (606.3) | Long Term – 900 (202.3)	IEC-60794-1-21-E1
Crush Resistance (N/cm) (lbf/in)	300 (674)	IEC-60794-1-21-E3
Impact Strength(Nm)(lbf/in)	5 (44.2)	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Min. Bend Radius	15 D	IEC-60794-1-21-E11
Repeated Bending	20 D Radius, 50 N, 25 Cycles	IEC-60794-1-21-E6
Water Penetration Test	1m head, 3m samples, 24 hrs.	IEC-60794-1-22-F5
Temperature Performance	Max. change in attenuation shall be ≤ 0.15 dB/km	IEC-60794-1-22-F1
Installation	-30° C to +70° C (-22° F to +158° F)	
Operation	-40° C to +70° C (-40° F to +158° F)	
Storage	-40° C to +70° C (-40° F to +158° F)	

Note: Change in attenuation after and before testing shall be ≤ 0.05 dB/km.

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Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123 | 20,000 ± 5% (For All Fiber Counts)	±5%	Max 5%, Customer Approval

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