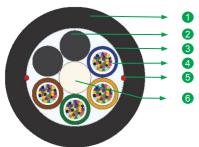


RapidTube

Multi Loose Tube Gel Free OFC







Single Jacket Armored Design















Features & Benefits

- Gel-Free Core with Dry Water-Blocking Technology: Our innovative technology guarantees a gel-free core, simplifying end
 preparation and reducing installation time. Dry water-blocking enhances cable performance in adverse weather conditions,
 minimizing downtime.
- Flexible and Lightweight Design: Our cables are designed to be incredibly flexible and lightweight, ensuring easy handling and installation, reducing strain on your team, and saving time during deployment.
- Robust Rodent Protection: The PE outer jacket combined with steel tape armor creates a formidable barrier against rodent damage, safeguarding your cables from costly and disruptive disruptions caused by rodents.
- Superior Crush and Impact Resistance: The reinforced design offers outstanding protection against crushing and impact
 forces, ensuring the integrity and longevity of your cable infrastructure even in demanding environments.
- **Effortless Post-Installation Cable Locating:** The steel tape armor not only provides physical protection but also serves as a reference point for precise post-installation cable locating, facilitating maintenance and repair tasks with accuracy.
- Convenient Jacket Removal: The thermoplastic jacket, engineered for easy removal and unbonded with the steel tape, simplifies cable installation and maintenance, making your job more efficient and cost-effective.
- Compliance with Federal Build America Buy America Regulations: Options available for cable and fiber components that are nationally sourced and adhere to federal regulations, demonstrating our commitment to quality and compliance.

Product Details

STL RapidTube Multi Loose Tube Gel free optical fiber cables are engineered for versatile applications, making them ideal for aerial, direct burial and duct installations. Setting them apart is their innovative gel-free technology, which ensures reliable performance in challenging environmental conditions. These cables are surrounded with water-swellable yarns within the buffer tubes and a water-swellable tape around the cable core, effectively safeguarding against water ingress. The cable core is thoughtfully constructed with buffer tubes, which are expertly stranded around a central strength member using the reverse oscillation stranding method. To provide additional protection, STL RapidTube is also available with a robust corrugated steel tape armor that envelops the cable core, and a thermoplastic jacket is then applied over this armor layer. This thoughtful design not only enhances the cable's durability but also simplifies installation, making it a dependable choice for a wide range of applications.

^{*} Typical Construction Diagram - Not to Scale

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

Specifications

Physical Characteristics								
Maximum Cabled Attenuation (dB/km)	1310nm : 0.35 & 1550nm : 0.25							
PMD/LDV (ps/sqrt.km)	≤ 0.1							
Tube Material	Polypropylene (PP)							
Loose Tube Size	2.4 mm (Typical)							
Central Strength Members	FRP (Fiber Reinforced Plastic)							
Filler	Thermoplastic Material							
Core Wrapping	Binder and water swellable tape							
Metallic Armoring (For Armored Design)	Corrugated Steel Tape (Un-bonded with Jacket)							
No. of Ripcords	2							
Outer Jacket Material	UV Proof Black Polyethylene							

Fiber Color Sequence (as per EIA/TIA 598C)											
Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

Cable Characteristics									
Product Code ¹	Fiber count	No. of Tubes	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%	Cable Diameter mm (in) ±5%	Cable Weight kg/km (lbs./ft.) ±10%			
			Single Jacket D	ielectric Design	Single Jacket Armored Design				
AA-0004-BB-01-F-A-CC-0000	4	1							
AA-0006-BB-01-F-A-CC-0000	6	1							
AA-0008-BB-01-F-A-CC-0000	8	1							
AA-0012-BB-01-F-A-CC-0000	12	1	40.6 (0.447)			4.40 (0.004)			
AA-0024-BB-02-F-A-CC-0000	24	2	10.6 (0.417)	74 (0.049)	12.6 (0.496)	140 (0.094)			
AA-0048-BB-04-F-A-CC-0000	48	4							
AA-0060-BB-05-F-A-CC-0000	60	5							
AA-0072-BB-06-F-A-CC-0000	72	6							
AA-0084-BB-07-F-A-CC-0000	84	7							
AA-0096-BB-08-F-A-CC-0000	96	8	12.5 (0.484)	88 (0.059)	14.3 (0.562)	160 (0.107)			
AA-0144-BB-12-F-A-CC-0000	144	12	45.7 (0.632)	4.40 (0.004)	47.0 (0.700)	224 (0.45=)			
AA-0216-BB-18-F-A-CC-0000	216	18	15.7 (0.622)	140 (0.094)	17.8 (0.700)	234 (0.157)			
AA-0288-BB-24-F-A-CC-0000	288	24	18.2 (0.716)	172 (0.115)	20.2 (0.795)	275 (0.184)			
AA-0432-BB-36-F-A-CC-0000	432	36	22.4 (0.881)	240 (0.161)	23.4 (0.921)	350 (0.228)			

Note 1: This is the recommended product code nomenclature. Refer to Ordering Information at the end of this document for details.

Specifications

Mechanical & Environmental Characteristics ²									
Cable Charact	eristics	Cable Performance	Testing Standard Method						
Tensile Strength		Short Term - 2700 (606.9) Long Term - 900 (202.3)	IECA 640 FOTP-33						
Crush Resistance	Dielectric Design	220 (125)	IECA 640 FOTP-41						
(N/cm) (lbf/in)	Armored Design	300 (171)	IECA 640 FOTP-41						
Impact Strength(Nm)		As per GR-20 compliance	IECA 640 FOTP-25						
Torsion		±180°	IECA 640 FOTP-85						
Min. Bend Radius (During	nstallation)	20 D	IECA 640 FOTP-88						
Min. Bend Radius (After I	nstallation)	15 D	IECA 640 FOTP-88						
Water Penetration Test		1m head, 3m samples, 24 hrs	IECA 640 FOTP-82						
Temperature Performance	e	Max. change in attenuation shall be ≤ 0.15 dB/km	IECA 640 FOTP-3						
Installation		-30° C to +70° C							
Operation		-40° C to +70° C							
Storage		-40° C to +70° C							

Note 2: 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.

Packing and Lengths

Drum Type	Length Multiple (in feet)	Order Tolerance	Short Lengths
Wooden Drums	13,123; 20,000 ± 5% (All Fiber Counts)	-0%, +5%	Max 5%, Customer Approval

Ordering Information

Optical fiber cable in other fiber types may be available on request, please create product code from the table below. Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

Product Type		Fibe	er Count	:	l .	ber /pe		Active bes	Cable Core Type	Fibers Color Code		cket /pe		ning nber		ecial quest
1	2		3		3	4		5	6		7		В		9	
-	-	-	-	-	-	-	-	-	F	Α	-	-	0	0	0	0

Create the desired Product Code following the instructions below:

1.AA - Product Type											
Code		Product Type									
D1	Multi Loose Tube Single Jack	Multi Loose Tube Single Jacket Dielectric Cable									
B1	Multi Loose Tube Single Jack	xet Steel Tape Armored Cable									
2. Fiber Count - Refer to P	. Fiber Count - Refer to Product Code in Cable Characteristics Table										
3. BB - Fiber Type Code Co	3. BB - Fiber Type Code Corresponding to Requested Fiber Type Among Following Options										
Code	Fiber Type (ITU-T)	STL's Fiber Name	Mode Field Diameter MFD ±0.4(µm) at 1310 nm								
SN	G.657.A1/ G.652.D	STL Nova 250 Fiber	9.1								
U1	G.657.A1/ G.652.D	G.657.A1/ G.652.D US-Made G.657.A1 Fiber 9.2									
4. Number of Active Tube	s - Refer to Product Code in Cable C	haracteristics Table									
5. Cable Core Type											
Code		Cable Core Type									
F	Dry Tube/ Dry Core										
6. Fibers Color Code											
Code		Fibers Color									
А	A- EIA/TIA 598 C- Blue to Aqu	ıa									
7. CC - Jacket Type	7. CC - Jacket Type										
Code		Jacket Type									
P1	PE (For Single Jacket Dielect	PE (For Single Jacket Dielectric Designs)									
BU	ECCS (Unbonded) + PE (For	ECCS (Unbonded) + PE (For Single Armor Single Jacket Designs)									

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For additional information please contact your sales representative.

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