

Central Loose Tube 300

Central Loose Tube Cable (Gel or Dry)

Prysmian



MDPE Outer Jacket

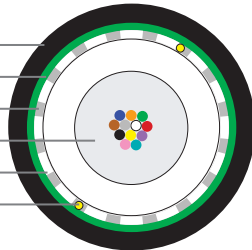
Corrugated Steel Armor

Water Blocking Strength Members

Buffer Tube - up to 12 Fibers

Water Blocking Tape

Ripcords



OVERVIEW

Prysmian's Central Loose Tube 300 cable is an excellent cost effective 300 lb tensile rated design for low fiber counts and provides flexible routing including multi-purpose drop applications.

SPECIFICATIONS / RATINGS

Applications Multi-purpose outdoor, aerial lashed, duct, direct buried

Constructions Central loose tube, armored (single jacket)

Fiber Count 1 to 12 fibers

Fiber Types Bend-insensitive single-mode (standard), multimode

Options Ripcords, dry or gel

Similar Central loose tube / ExpressLT™ / LT 2.0 /

Alternatives Indoor-outdoor / Flat drop

Standards ANSI/ICEA S-110-717, RUS 7 CFR 1755.903 (RUS Listed), Telcordia GR-20

Registered Supplier ISO 9001, ISO 14001, TL 9000, and OHSAS 18001



FEATURES AND BENEFITS

Easy Cable Entry and Preparation

- ezPrep® armor greatly improves mid-entry
- The jacket can be easily separated from the armor
- Optional ripcord speeds cable entry & outer jacket removal
- Flexible gel or dry buffer tube simplifies routing and splicing preparation
- Single buffer tube eliminates removal of empty filler tube

Flexible Routing and Termination

- Single central buffer tube reduces size & bend diameter
- Flexible strength members bend in any direction
- Standard bend-insensitive single-mode fiber

Multi-Purpose Installation & Use

- Suitable for aerial lashed, duct, and direct buried installation
- Small diameter and light weight, extends reel and installation lengths
- ezPREP® corrugated steel tape armor provides mechanical protection and rodent resistance

Reliable Lifetime Performance

- Guaranteed standards-based performance

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TLS-DS-A-601-0621

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Fiber Count Range	Recommended Fiber Count	Recommended Prysmian* Part Number	Tube Construction	Diameter		Approx. Cable Weight		Min. Bend Radius Load		Min. Bend Radius No Load		Max. Reel Length	
				Inches	mm	lb/kft	kg/km	Inches	cm	inches	cm	feet	meters
Single Armor, Single Jacket - Gel with Ripcord													
1 to 12	6	C3R1A1J-12-AA-006-BB	Gel	0.38	9.7	57	85	8	20	6	15	41,010	12,500
	12	C3R1A1J-12-AA-012-BB											
Single Armor, Single Jacket - Gel without Ripcord													
1 to 12	6	C3H1A1J-12-AA-006-BB	Gel	0.38	9.7	57	85	8	20	6	15	41,010	12,500
	12	C3H1A1J-12-AA-012-BB											
Single Armor, Single Jacket - Dry with Ripcord													
1 to 12	6	D3R1A1J-12-AA-006-BB	Dry	0.38	9.7	56	83	8	20	6	15	41,010	12,500
	12	D3R1A1J-12-AA-012-BB											
Single Armor, Single Jacket - Dry without Ripcord													
1 to 12	6	D3H1A1J-12-AA-006-BB	Dry	0.38	9.7	56	83	8	20	6	15	41,010	12,500
	12	D3H1A1J-12-AA-012-BB											

* Where AA equals glass type and BB equals attenuation

Installation

Maximum installation load: 300 lbf (1335 N)
Maximum operation load: 90 lbf (400 N)

Temperature Range

Shipping and Storage: -40° F to +167° F (-40° C to +75° C)
Installation: -22° F to +140° F (-30° C to +60° C)
Operation: -40° F to +158° F (-40° C to +70° C)

Mechanical Performance (per ICEA 640 and Telcordia GR20)

Minimum installation bend radius: 20 times the cable diameter
Minimum operating bend radius: 15 times the cable diameter
Short Term Compression: 220 N/cm over 10 cm (125 lb/in over 4 inches)
Long Term Compression: 110 N/cm over 10 cm (62.5 lb/in over 4 inches)
Impact Load: 4.4 Nm

Ordering Guide

The Prysmian Group part number incorporates several significant attributes involving cable design and optical performance. The appropriate part number can be configured using the process described below

Example: Central loose tube 300, single armor single jacket (12 fibers/tube) with 12 bend-insensitive single-mode fibers in a gel tube, no ripcord (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	C3H	1A1J	12	B1	012	E3

PART NUMBER CONSTRUCTION	
1 LENGTH MARKINGS	F = Feet or M = Meters
2 PRODUCT FAMILY	C3H = Central Loose Tube 300 Gel Without Ripcord C3R = Central Loose Tube 300 Gel With Ripcord D3H = Central Loose Tube 300 Dry Without Ripcord D3R = Central Loose Tube 300 Dry With Ripcord
3 CONSTRUCTION	1A1J = Single Armor, Single Jacket
4 FIBER GROUPING	12 = 12f per tube

Other cable constructions and fiber performance grades available on request.

FIBER INFORMATION				
5 FIBER TYPE	SINGLE-MODE			
	B1 = Bend-Insensitive Single-Mode (ITU G.657.A1 & G.652.D)			
	B2 = Bend-Insensitive Single-Mode (ITU G.657.A2 & .B2, & G.652.D)			
	MULTIMODE	Wavelength (nm)	Bandwidth (MHz)	1 GbE Dist (m)
	G6 = OM1 (62.5µm)	850/1300	200/500	300/550
	G5 = OM2+ BIF (50µm)	850/1300	700/500	800
	G3 = OM3 BIF (50µm)	850/1300	1500/500	1000
	G4 = OM4 BIF (50µm)	850/1300	3500/500	1100
6 FIBER COUNT	1 to 12 fibers			
7 FIBER GRADE	SINGLE-MODE			
	Attenuation (dB/km)	Wavelength (nm)	Fiber Type	
	E1 = 0.40/0.40/0.30	1310/1383/1550	B1 or B2	
	E3 = 0.35/0.35/0.25	1310/1383/1550	B1 or B2	
	MULTIMODE			
	Attenuation (dB/km)	Wavelength (nm)		
	M2 = 3.5/1.0	850/1300		
	M3 = 3.0/1.0	850/1300		

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