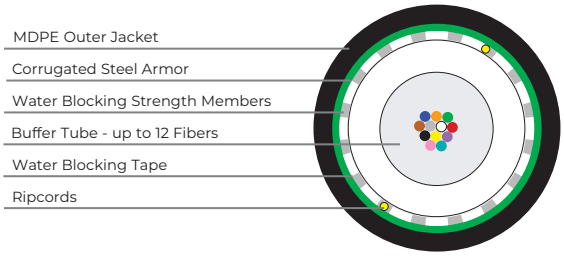
Central Loose Tube 300

Central Loose Tube Cable (Gel or Dry)



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 Alternatives	Central loose tube / ExpressLT™ / LT 2.0 / Indoor-outdoor /Flat drop
Standards	ANSI/ICEA S-110-717, RUS 7 CFR 1755.903 (RUS Listed), Telcordia GR-20
Performance	BABA Compliance available upon request
Registered Supplier	ISO 9001, ISO 14001, TL 9000, and OHSAS 18001

RUS LISTED

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 3.0 mm 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

MADE RIGHT HERE

PERFORMANCE SPECIFICATIONS		
Bend Radius		
Dynamic	20 x Cable OD	
Static (Single Bend)	10 x Cable OD	
Static (Cable Coil)	15 x Cable OD	
Tensile Rating	**N**	**lbf**
Installation	2,700	600
Residual	800	180
Crush Resistance	**N/cm**	**lbf/in**
Short/ long Term	220/110	125/63
Temperature Ratings	**°C**	**°F**
Operation	-40 to +70	-40 to +158
Installation	-30 to +60	-22 to +140
Storage/Shipping	-40 to +75	-40 to +167

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-A-601-0825

Central Loose Tube 300

Central Loose Tube Cable (Gel or Dry)

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 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, M = Meters or B = BABA Compliant in Feet

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)	10 GbE Dist (m)
G6 = OM1 (62.5µm)	850/1300	200/500	300/550	33/___
G5 = OM2+ BIF (50µm)	850/1300	700/500	800	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100	550/___

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

Prysmian
4 Tesseneer Drive, Highland Heights, KY 41076
na.prysmian.com
TLS-DS-A-601-0825