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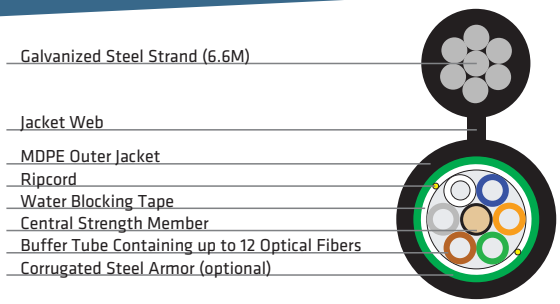
Loose Tube Figure 8

Integrated Messenger Loose Tube Cable



One-step aerial deployment for up to 600' (180m) with integrated steel messenger.

Overview

Prysmian's Loose Tube Figure 8 version provides robust self-support aerial deployment and quick one-step installation using existing Figure 8 hardware and methods. Its 0.25" (6.4mm) Extra High-Strength galvanized steel support messenger can support spans up to 600' (180m) depending on environmental loading conditions. These cables uniquely combine adhesive armor, flexible buffer tubes, swellable water-blocking, and exclusive ColorLock® fiber coating to make the easiest loose tube cables to access and prep.

Product Snapshot

Applications	Outdoor - Self-Support Aerial (Communications Space)
Constructions	Non-Armored, Armored with 0.25" (6.4mm) Integrated Messenger
Fiber Count	2 to 216 fibers in Color-coded Buffer Tubes
Fiber Types	Single-mode / NZDSF / Multimode / Hybrid
Options	Steel Central Member / 22 or 24 AWG Copper Pair(s) / 16 AWG Tonewire
Performance	ANSI / ICEA 640, IEC, RUS 7 CFR 1755 (RUS Listed), Telecordia GR20

Features and Benefits

Easy Cable Entry and Preparation

- This cable design makes entry & preparation easy
- EzPrep® armor greatly improves mid-entry
- Ripcord speeds cable entry & outer jacket removal
- Swellable binders speed cable preparation

Flexible Routing and Termination

- Flexible buffer tubes simplify routing & splicing prep
- Available BendBright & BendBright-XS bend-tolerant single-mode fiber

Quick Installation & Robust Self-Support

- Quick one-step aerial installation using existing hardware & methods
- 0.25" (6.4mm) EHS steel messenger for spans up to 600' (180m)
- Optional corrugated steel tape armor provides mechanical protection and rodent resistance

Reliable Lifetime Performance

- Guaranteed standards-based performance
- Exclusive ColorLock fiber coating (single-mode) for permanent embedded color and long-term lifetime performance
- Materials provide enhanced long-term reliability

RUS LISTED

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Dielectric (F8S1JKT)

Fiber Count	Diameter inches (mm)	Height inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)
2 - 72	0.51 (12.9)	0.96 (24.3)	225 (335)	10 (26)	5 (13)
74 - 84	0.54 (13.8)	0.99 (25.3)	235 (350)	11 (28)	6 (14)
86 - 96	0.59 (15.0)	1.04 (26.5)	247 (367)	12 (30)	6 (15)
98 - 108	0.63 (15.9)	1.07 (27.3)	257 (383)	13 (32)	7 (16)
110 - 120	0.66 (16.9)	1.12 (28.4)	269 (400)	13 (34)	7 (17)
122 - 132	0.70 (17.8)	1.16 (29.4)	281 (418)	14 (35)	7 (18)
134 - 216	0.74 (18.8)	1.19 (30.3)	304 (452)	15 (37)	8 (19)

Armored (F8S1A1J)

Fiber Count	Diameter inches (mm)	Height inches (mm)	Approximate Cable Weight lb/kft (kg/km)	Bend Radius Load inches (cm)	Bend Radius No Load inches (cm)
2 - 72	0.56 (14.1)	1.02 (26.0)	279 (416)	11 (29)	9 (21)
74 - 84	0.59 (15.1)	1.06 (27.0)	293 (436)	12 (31)	9 (23)
86 - 96	0.64 (16.3)	1.11 (28.2)	310 (462)	13 (33)	10 (25)
98 - 108	0.67 (17.1)	1.14 (29.0)	323 (480)	14 (35)	10 (26)
110 - 120	0.72 (18.2)	1.18 (30.1)	338 (503)	14 (37)	11 (28)
122 - 132	0.76 (19.2)	1.22 (31.1)	354 (527)	15 (39)	12 (29)
134 - 216	0.79 (20.1)	1.26 (32.0)	381 (567)	16 (42)	12 (30)

Load Capabilities

Maximum rated messenger load: 2600 lbf (11,500 N)

Meets the loading conditions of heavy, medium, or light storm loading areas as defined by the National Electric Safety Code (NESC). Sag and tension tables are available, providing recommended installation and operating sag and tension.

Maximum Span Distances

Heavy Load:	350 ft to 400 ft	(107m to 122m)
Medium Load:	550 ft to 600 ft	(168m to 183m)
Light Load:	600 ft	(183m)

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)

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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: Loose Tube Figure 8, Single Armor Single Jacket (12 Fibers/Tube) with 72 ESMF Single-mode Fibers (printed in feet)

1 LENGTH MARKINGS	2 PRODUCT FAMILY	3 CONSTRUCTION	4 FIBER GROUPING	5 FIBER TYPE	6 FIBER COUNT	7 FIBER GRADE
F	F8S	1A1J	12	ES	072	E1

PART NUMBER CONSTRUCTION

1 LENGTH MARKINGS

F = Feet or M = Meters

2 PRODUCT FAMILY

F8S = Loose Tube Figure 8 Up to 600'/183 m (Dependent on Loading)

3 CONSTRUCTION

1JKT = Single Jacket

1A1J = Single Armor, Single Jacket

4 FIBER GROUPING

06 = 6f per unit or tube

12 = 12f per unit or tube

24 = 24f per unit (12f per tube)

FIBER INFORMATION

5 FIBER TYPE

SINGLE-MODE
HB = Single-Mode (ITU G.652 C & D) Low Water Peak
ES = Enhanced Single-Mode (ITU G.652 C & D)
CE = Corning™ SMF28e+ Single-Mode
BB = BendBright Single-Mode (ITU G.657.A1 & G.652.D)
BX = BendBrightXS Single-Mode (ITU G.657.A2 & .B2, & G.652.D)
TU = TeraLight Ultra Single-Mode (ITU G.655 & G.656)
LA = NZDSF-LA Single-Mode (ITU G.655)
LE = LEAF NZDSF (ITU G.655)

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	800/550	150/___
G3 = OM3 BIF (50µm)	850/1300	1500/500	1000/550	300/___
G4 = OM4 BIF (50µm)	850/1300	3500/500	1100/550	550/___

6 FIBER COUNT

002 to 216 fibers

7 FIBER GRADE

SINGLE-MODE Attenuation (dB/km)	Wavelength (nm)	
E1 = 0.40/0.40/0.30	1310/1383/1550	HB, ES, CE, BB, BX
E3 = 0.35/0.35/0.25	1310/1383/1550	HB, ES, CE, BB, BX
NA = 0.40/0.25	1310/1550	TeraLight Ultra Single-Mode
N1 = 0.25	1550	NZDSF-LA or LEAF Single-Mode
MULTIMODE Attenuation (dB/km)	**Wavelength (nm)**	
M2 = 3.5/1.0	850/1300	
M3 = 3.0/1.0	850/1300	

Other cable constructions and fiber performance grades available on request.

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