

ALTOS® Figure-8 Cables

An Evolant® Solutions Product

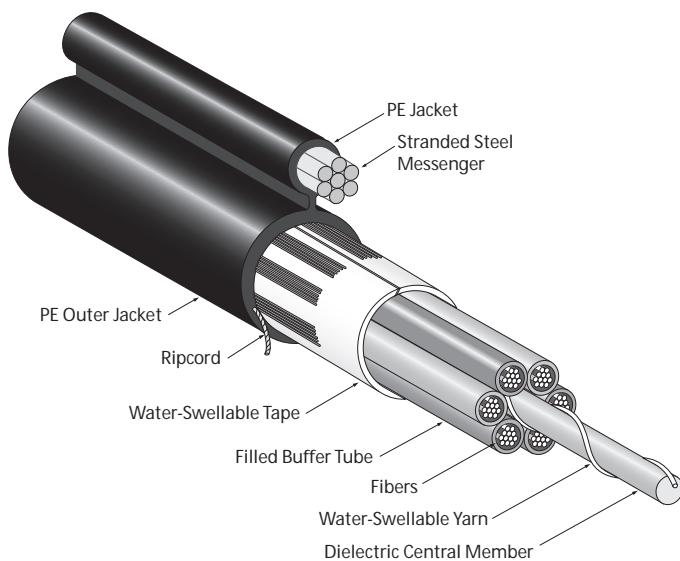
Description

ALTOS® Figure-8 Cables are self-supporting aerial cables that are designed for easy and economical one-step installation.

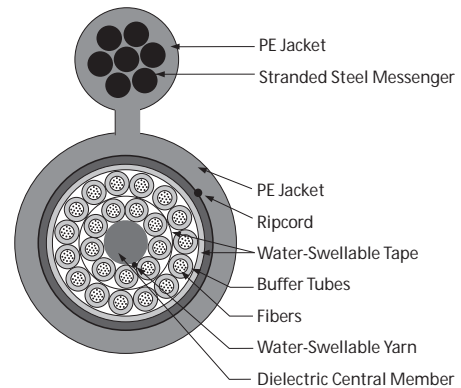
The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features / Benefits

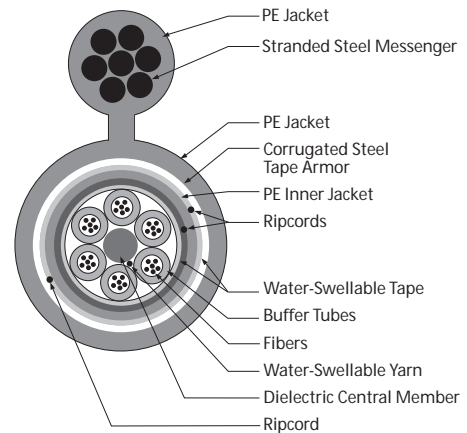
- Figure-8 cable design allows easy, one-step installation, using standard hardware and installation methods
- Can span in excess of 500 ft in NESC heavy loading conditions; sag and tension information is available upon request
- Flexible, craft-friendly buffer tubes are easy to route in closures
- Standard buffer tube size reduces the number of access tools required by craft personnel
- Cables incorporate an innovative water-blocking design, eliminating the need for traditional flooding compound and providing efficient and craft-friendly cable preparation
- S-Z stranded, loose tube design isolates fibers from installation and environmental rigors and facilitates midspan access
- Medium-density PE jacket is rugged, durable and easy to strip



ALTOS Figure-8 Cable | Drawing ZA-1068



ALTOS Figure-8 Single-Jacket, Non-Armored Cable, 288-Fiber
| Drawing ZA-1574



ALTOS Figure-8 Double-Jacket, Single-Armored Cable, 36-Fiber
| Drawing ZA-1575



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Mechanical Specifications

Maximum Tensile Loads	Short-Term: See sag and tension info Long-Term: See sag and tension info
Temperatures	Storage: -40° to +70°C (-40° to +158°F) Operation: -40° to +70°C (-40° to +158°F) Installation: -30° to +70°C (-22° to +158°F)
Approvals and Listings	RDUP 7 CFR 1755.900
Design and Test Criteria	ANSI/ICEA S-87-640

Fiber Count Range	Maximum Fibers per Tube	Number of Tube Positions	Number Active Tubes	Central Member	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outer Diameter mm (in)	Nominal Cable Height mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)
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Figure-8 Duct

2-60	12	5	1-5	Dielectric	316 (212)	11.5 (0.45)	23.1 (0.91)	17.3 (6.8)	11.5 (4.5)
61-72	12	6	6	Dielectric	330 (222)	12.2 (0.48)	23.8 (0.94)	18.3 (7.2)	12.2 (4.8)
73-96	12	8	7-8	Dielectric	364 (245)	14.1 (0.56)	25.7 (1.01)	21.2 (8.4)	14.1 (5.6)
97-120	12	10	9-10	Dielectric	405 (272)	16.1 (0.63)	27.7 (1.09)	24.2 (9.5)	16.1 (6.3)
121-192	12	16	11-16	Dielectric	420 (282)	17.6 (0.69)	29.2 (1.15)	26.4 (10.4)	17.6 (6.9)
193-216	12	18	17-18	Dielectric	441 (296)	18.4 (0.72)	30.0 (1.18)	27.6 (10.9)	18.4 (7.2)
217-240	12	20	19-20	Dielectric	467 (314)	19.5 (0.77)	31.1 (1.23)	29.3 (11.5)	19.5 (7.7)
241-288	12	24	21-24	Dielectric	522 (351)	21.5 (0.85)	33.1 (1.30)	32.3 (12.7)	21.5 (8.5)

Figure-8 Armored

2-60	12	5	1-5	Dielectric	424 (285)	15.3 (0.60)	26.9 (1.06)	23.0 (9.1)	15.3 (6.0)
61-72	12	6	6	Dielectric	450 (302)	16.2 (0.64)	27.8 (1.10)	24.3 (9.6)	16.2 (6.4)
73-96	12	8	7-8	Dielectric	498 (335)	18.1 (0.71)	29.7 (1.17)	27.2 (10.7)	18.1 (7.1)
97-120	12	10	9-10	Dielectric	556 (374)	20.1 (0.79)	31.7 (1.25)	30.2 (11.9)	20.1 (7.9)
121-192	12	16	11-16	Dielectric	578 (388)	21.5 (0.85)	33.1 (1.30)	32.3 (12.7)	21.5 (8.5)

Maximum Span with One Percent Installation Sag

Fiber Count Range	Number of Tube Positions	NESC Light m (ft)	NESC Medium m (ft)	NESC Heavy m (ft)
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Figure-8 Non-Armored

2-60	5	232 (760)	227 (745)	168 (550)
72	6	229 (750)	226 (740)	166 (545)
84-96	8	186 (610)	186 (610)	137 (450)
108-120	10	180 (590)	180 (590)	134 (440)
132-192	16	197 (645)	200 (655)	149 (490)
204-216	18	183 (600)	186 (610)	139 (455)
228-240	20	148 (485)	151 (495)	113 (370)
252-288	24	166 (545)	169 (555)	130 (425)

Figure-8 Armored

2-60	5	187 (615)	186 (610)	142 (465)
72	6	183 (600)	181 (595)	139 (455)
84-96	8	149 (490)	149 (490)	114 (375)
108-120	10	143 (470)	143 (470)	111 (365)
132-192	16	155 (510)	157 (515)	123 (405)

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Transmission Performance Table

Fiber Code	K	C	E	E
Performance Option Code	30	31	01	00
Fiber Type	62.5/125 μm (850/1300 nm)	50/125 μm (850/1300 nm)	Single-mode (1310/1383/1550 nm)	Single-mode (1310/1383/1550 nm)
Maximum Attenuation (dB/km)	3.5/1.0	3.5/1.5	0.4/0.4/0.3	0.35/0.35/0.25
Minimum LED Bandwidth (MHz•km)	200/500	500/500	- / - / -	- / - / -
Minimum Effective Modal Bandwidth (MHz•km)	220/ -*	510/ -*	- / - / -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	5000/ - / -	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	10000/40000	10000/40000

* EMB when deployed with 850 nm, 1 Gb/s VCSELs as predicted by RML Bandwidth using FOTP-204.

Ordering Information

Contact Customer Service for other options.

W - T 1 A 2 0
 1 2 3 4 5 6 7 8 9 10 11 12 13 14

1 - 3 Select fiber count (002 to 288).

Note: Maximum fiber count is 192 fibers for armored cables.

4 Select fiber code (see Transmission Performance Table).

5 / 12 Defines cable type.

W/A = ALTOS® Cable

6 Select outer jacket.

A = Figure-8, non-armored
B = Figure-8, armored

7 Defines fiber placement.

T = 12 fiber/buffer tube (standard)

8 Select length markings.

4 = Markings in feet (standard)
3 = Markings in meters

9 Defines tensile strength.

1 = 6.6 M EHS

10 - 11 Select performance option code
(see Transmission Performance Table).

13 - 14 Defines special requirements.

20 = No special requirements

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