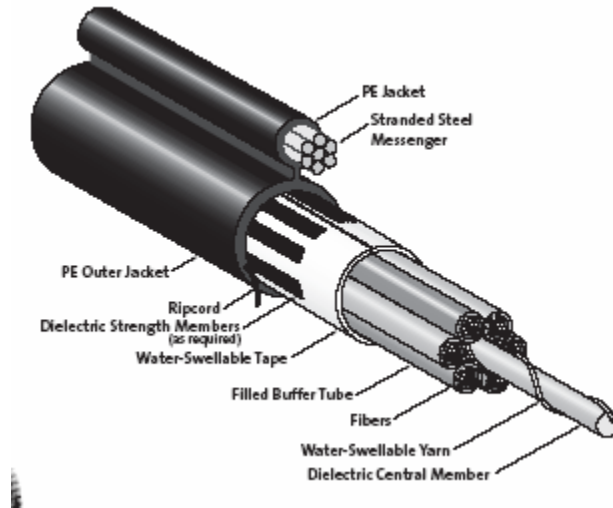




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004KWA-T4130A20

ALTOS® Figure-8 Cables

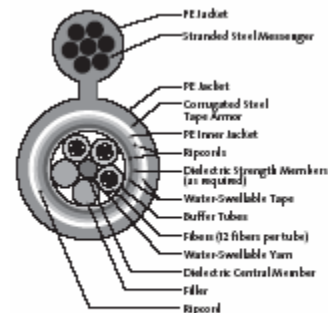
An Evolant™ Solutions Product

Description

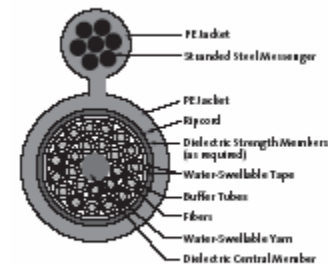
ALTOS® Figure-8 Cables are self-supporting aerial cables that are designed for easy and economical one-step installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications- grade optical fiber.

Features / Benefits

- Figure-8 cable design allows easy, one-step aerial 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
- Dry™ Cables, incorporating an innovative waterblocking design, eliminate the need for traditional flooding compound, providing efficient and craft-friendly cable preparation
- S-Z stranded, loose tube design isolates fibers from installation and environmental rigors and facilitates mid-span access
- Medium-density PE jacket is rugged, durable and easy to strip



36-Fiber Double-Jacket Single-Armored Figure-8
ALTOS Cable | Drawing ZA-B35



288-Fiber Single-Jacket Non-Armored Figure-8
ALTOS Cable | Drawing ZA-B34



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Specifications

Maximum Tensile Loads	Short-Term: See sag and tension info Long-Term: See sag and tension info
Storage Temperature	-40° to +70°C (-40° to +158°F)
Installation Temperature	-30° to +70°C (-22° to +158°F)
Operating Temperature	-40° to +70°C (-40° to +158°F)
Approvals and Listings	RUS 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 of 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)
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 Armor

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)
193-216	12	18	17-18	Dielectric	610 (410)	22.4 (0.88)	34.0 (1.34)	33.6 (13.2)	22.4 (8.8)
217-240	12	20	19-20	Dielectric	645 (433)	23.5 (0.93)	35.1 (1.38)	35.3 (13.9)	23.5 (9.3)
241-288	12	24	21-24	Dielectric	718 (482)	25.5 (1.00)	37.1 (1.46)	38.3 (15.1)	25.5 (10.0)

Typical Sag and Tension Information

Fiber Count	Cable Type	Span 150 ft (45 m) Tension 800 lb	Span 150 ft (45 m) Tension 1000 lb	Span 150 ft (45 m) Tension 1200 lb
2-60	Non-Armored	0.75	0.60	0.50
	Armored	1.03	0.82	0.68
133-144	Non-Armored	1.01	0.81	0.67
	Armored	1.40	1.12	0.93
276-288	Non-Armored	1.27	1.02	0.85
	Armored	1.75	1.40	1.16

Installation tensions are at 23°C (73°F).

Sag values are in feet and reflect installation sag.



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Transmission Performance Table

Fiber Code	K	C	R	R	E	E
Performance Option Code	30	31	01	00	01	00
Fiber Type	62.5/125 µm (850/1300 nm)	50/125 µm (850/1300 nm)	Single-mode (1310/1550 nm)	Single-mode (1310/1550 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	0.4/0.3	0.35/0.25	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/ - ^a	510/ - ^a	- / -	- / -	- / - / -	- / - / -
Serial Gigabit Ethernet Distance (m)	300/550	600/600	5000/ -	5000/ -	5000/ - / -	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	82/ -	10000/40000	10000/40000	10000/40000	10000/40000

^a EMB when deployed with 850 nm, 1 GHz VCSELs as predicted by RML Bandwidth using FOTP-204.