

Product Description: AT-XXX27D6-024-CLFE - Maximum Span 1610 ft

Loading Conditions NESC MEDIUM

Ice Thickness	6.4 mm	0.25 in.
Wind Pressure	192 N/m ² (63.6 km/hr)	4 psf (39.5 MPH)
Temperature	-9.4 C	15 F
Safety Factor	2.92 N/m	0.2 lb/ft

Tension @ Maximum Span for 1.5 % Installation Sag

Short Term	1281 kg	2823 lb
Long Term	585 kg	1290 lb

Specifications:

Maximum Span	490.7 m	1610 ft
Cable Weight	0.143 kg/m	0.096 lb/ft
Cable Diameter	13.9 mm	0.547 in
Installation Temp	20 C	68 F
Cable Modulus	767.5 kg/mm ²	1091.8 kpsi
Linear Expansion Coefficient	0.0000639 1 / C	0.0000355 1 / F
Estimated Break Load	2096 kg	4622 lb

Maximum Cable Length: Dependent on construction and/or fiber type

Singlemode	12,900 m	42,323 ft
62.5/125 Multimode	8,000 m	26,247 ft

No Loading @ Install Temperature 68 F

Span ft	Sag ft	Install Sag %	Tension lb
100	1.5	1.50	80
200	3.0	1.50	160
300	4.5	1.50	240
400	6.0	1.50	320
500	7.5	1.50	401
600	9.0	1.50	481
700	10.5	1.50	561
800	12.0	1.50	641
900	13.5	1.50	721
1000	15.0	1.50	801
1100	16.5	1.50	881
1200	18.0	1.50	961
1300	19.5	1.50	1042
1400	21.0	1.50	1122
1500	22.5	1.50	1202
1600	24.0	1.50	1282
1610	24.1	1.50	1290

All Loading Conditions @ Temperature 15 F

Tension lb	Vertical Sag ft	Horizontal Sag ft	Angle Deg
361	1.7	1.7	45
607	4.0	4.1	45
819	6.7	6.8	45
1010	9.6	9.7	45
1190	12.7	12.9	45
1361	16.0	16.3	45
1524	19.5	19.8	45
1681	23.0	23.4	45
1834	26.7	27.1	45
1982	30.5	31.0	45
2127	34.4	35.0	45
2269	38.4	39.0	45
2408	42.5	43.1	45
2544	46.6	47.3	45
2678	50.8	51.6	45
2810	55.1	56.0	45
2823	55.6	56.4	45

The recommended maximum space potential at ADSS attachment point is 12 kV

Dead End Assembly:

MOSDORFER Dead-End: N/A
PLP Dead-End: 2872102C1E1, Max. Tension: 4,000 lbs. (1135 kg)

Fixed Tangent Support (Line Angle Changes <= 20 deg & Spans <= 600 ft (183 m))

MOSDORFER: Support Clamp: FOSC 0575
PLP: Dielectric block: 44009823
PLP: Aluminum Support: 4450101

Suspended Support (Line Angle Changes <= 20 deg & Spans <= 600 ft (183 m))

PLP: Aluminum Suspension: 4450201-S

Low Tension / Short Span Hardware:

MOSDORFER: Light Tension DE: FOLT1285-CTO, Max. Tension: 800 lbs. (362 kg)
PLP: Lite Tension DE: 2875004C1N, Max. Tension: 800 lbs. (362 kg)
PLP: Lite Support: 4800114, Max.Span 300 ft (91 m)
PLP PGTTH Dead End: Not Available

Slack Storage Devices: Not recommended for TR cables

PLP Fiberlign® CLAS Storage System w/cable guide: 710012375U

Heliformed Suspension Units (Line angle changes <= 30 degrees):

PLP: 43002246YC :Spans 1200ft to 2000ft (365m to 610m)
PLP: 4470201-S Aluminum Suspension with SRR rods, Max Span: 1200 ft (365m)

Vibration Dampers, see Application Note 812 for recommendations:

MOSDORFER Vibration Dampers: SVD0462
PLP Vibration Dampers: 50502274

Down Lead Cushion & Abrasion Protector:

PLP: 8003042, Add "H1" - Wood Attachment Kit & "LTC1" - Lattice Clamp Kit
PLP Abrasion Protector: PTG-0203 Length: 6 ft

Corona coils not required

PLP: Sized to fit appropriate hardware, part numbers available upon request

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