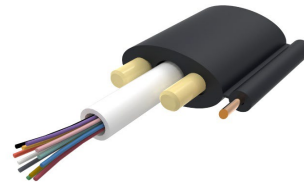


Sag & Tension Tables (NESC: Medium) Fiber + Tone Wire Outdoor Drop Cable Elliptical Tenable Drop

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Loading Conditions:	NESC MEDIUM	SI	US
Ice Thickness mm (in):		6.35	(0.3)
Wind Pressure N/m ² (lb/ft ²):		191.5	(4.0)
Temperature °C (°F):		-9.44	(15.0)
Safety Factor N/m (ft*lb):		2.92	(2.15)

Environmental Conditions			
Max. Environmental Load N (lbf):		1334	(300)
Max. Environmental Cable Strain (%):		0.61	(0.61)
Maximum Vertical Sag m (ft):		2.20	(7.2)



Design Specifications:		SI	US
Maximum Span m (ft):		68	(223)
Cable Weight kg/km (lb/mf):		42	(28)
Cable Diameter mm (in):		9.9	(0.39)
Cable Height mm (in):		4.5	(0.18)
Install Temp °C (°F):		20	(68.0)

Maximum Allowable Install Load and Strain			
Max. Install. Load N (lbf):		276	(62)
Max. Install. Cable Strain (%):		0.16	(0.16)

Install Location	Install Conditions at 20°C (68°F)					Loaded Conditions at -9°C (15°C)				
	Max Span	Sag	Install Sag	Tension	Cable Strain	Vertical Sag % of Span	Vertical Sag	Horizontal Sag	Tension	Cable Strain
	m (ft)	m (ft)	(%)	N (lbf)	(%)	(%)	m (ft)	m (ft)	N (lbf)	(%)

	39 (128)	0.39 (1.3)	1.00	200 (45)	0.12	2.31%	0.90 (3.0)	1.18 (3.9)	1068 (240)	0.48
	38 (125)	0.57 (1.9)	1.50	129 (29)	0.09	2.41%	0.91 (3.0)	1.20 (3.9)	1001 (225)	0.45
	37 (121)	0.74 (2.4)	2.00	93 (21)	0.07	2.50%	0.93 (3.0)	1.21 (4.0)	939 (211)	0.42
	30 (98)	0.90 (3.0)	3.00	49 (11)	0.05	2.64%	0.79 (2.6)	1.04 (3.4)	721 (162)	0.32

	54 (177)	0.54 (1.8)	1.00	276 (62)	0.16	2.56%	1.38 (4.5)	1.81 (6.0)	1334 (300)	0.61
	57 (187)	0.86 (2.8)	1.50	191 (43)	0.12	2.73%	1.56 (5.1)	2.04 (6.7)	1321 (297)	0.60
	61 (200)	1.22 (4.0)	2.00	156 (35)	0.10	2.90%	1.77 (5.8)	2.32 (7.6)	1330 (299)	0.60
	68 (223)	2.04 (6.7)	3.00	116 (26)	0.08	3.24%	2.20 (7.2)	2.89 (9.5)	1330 (299)	0.60

	54 (177)	0.54 (1.8)	1.00	276 (62)	0.16	2.56%	1.38 (4.5)	1.81 (6.0)	1334 (300)	0.61
	57 (187)	0.86 (2.8)	1.50	191 (43)	0.12	2.73%	1.56 (5.1)	2.04 (6.7)	1321 (297)	0.60
	61 (200)	1.22 (4.0)	2.00	156 (35)	0.10	2.90%	1.77 (5.8)	2.32 (7.6)	1330 (299)	0.60
	68 (223)	2.04 (6.7)	3.00	116 (26)	0.08	3.24%	2.20 (7.2)	2.89 (9.5)	1330 (299)	0.60

Note: Assumptions made regarding Install Locations. Changes to these assumptions may change the Max Spans.

† Street crossing distances with 18.0 ft attachment height and a 3.0 ft maximum vertical sag.

‡ Pedestrian crossing distances with 18.0 ft attachment height and a 9.0 ft maximum vertical sag.

* Max span with no limits imposed on sag.

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Specifications Subject to Change
Revision Date: 2/16/2024

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