

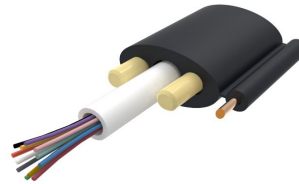
Sag & Tension Tables (NESC: Heavy) Fiber + Tone Wire Outdoor Drop Cable Elliptical Tenable Drop

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Loading Conditions:	NESC HEAVY	SI	US
Ice Thickness mm (in):	12.70	(0.5)	
Wind Pressure N/m ² (lb/ft ²):	191.5	(4.0)	
Temperature °C (°F):	-17.8	(0.0)	
Safety Factor N/m (ft*lb):	4.38	(3.23)	

Environmental Conditions			
Max. Environmental Load N (lbf):	1348	(303)	
Max. Environmental Cable Strain (%):	0.60	(0.60)	
Maximum Vertical Sag m (ft):	1.60	(5.3)	



Design Specifications:		SI	US
Maximum Span m (ft):	38	(125)	
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):	156	(35)	
Max. Install. Cable Strain (%):	0.10	(0.10)	

Install Location	Install Conditions at 20°C (68°F)					Loaded Conditions at -18°C (0°F)				
	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)	(%)

	27 (89)	0.27 (0.9)	1.00	138 (31)	0.09	3.29%	0.89 (2.9)	0.71 (2.3)	1219 (274)	0.54
	27 (89)	0.41 (1.3)	1.50	93 (21)	0.07	3.41%	0.92 (3.0)	0.74 (2.4)	1174 (264)	0.52
	26 (85)	0.52 (1.7)	2.00	67 (15)	0.06	3.49%	0.91 (3.0)	0.73 (2.4)	1103 (248)	0.49
	24 (79)	0.72 (2.4)	3.00	40 (9)	0.05	3.73%	0.89 (2.9)	0.72 (2.3)	956 (215)	0.42

	31 (102)	0.31 (1.0)	1.00	156 (35)	0.10	3.44%	1.07 (3.5)	0.85 (2.8)	1334 (300)	0.59
	33 (108)	0.50 (1.6)	1.50	111 (25)	0.08	3.64%	1.20 (3.9)	0.96 (3.1)	1348 (303)	0.60
	34 (112)	0.68 (2.2)	2.00	85 (19)	0.07	3.79%	1.29 (4.2)	1.03 (3.4)	1330 (299)	0.59
	38 (125)	1.14 (3.7)	3.00	62 (14)	0.06	4.21%	1.60 (5.3)	1.28 (4.2)	1339 (301)	0.59

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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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