

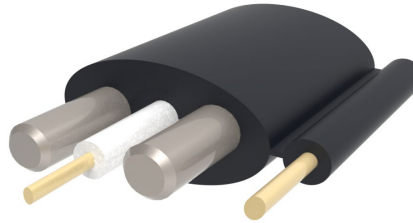
Sag & Tension Tables (NESC: Heavy) Mini-Flat Drop Tenable

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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):	1241	(279)	
Max. Environmental Cable Strain (%):	0.60	(0.60)	
Maximum Vertical Sag m (ft):	1.65	(5.4)	



Design Specifications:	SI	US
Maximum Span m (ft):	39	(128)
Cable Weight kg/km (lb/mf):	23	(15)
Cable Diameter mm (in):	7.5	(0.29)
Cable Height mm (in):	2.8	(0.11)
Install Temp °C (°F):	0	(32.0)

Maximum Allowable Install Load and Strain			
Max. Install. Load N (lbf):	93	(21)	
Max. Install. Cable Strain (%):	0.05	(0.05)	

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	76 (17)	0.04	3.34%	0.90 (3.0)	0.77 (2.5)	1085 (244)	0.52
	27 (89)	0.41 (1.3)	1.50	49 (11)	0.02	3.44%	0.93 (3.0)	0.79 (2.6)	1054 (237)	0.51
	26 (85)	0.52 (1.7)	2.00	36 (8)	0.02	3.51%	0.91 (3.0)	0.78 (2.5)	992 (223)	0.48
	24 (79)	0.72 (2.4)	3.00	22 (5)	0.01	3.74%	0.90 (2.9)	0.76 (2.5)	863 (194)	0.41

	33 (108)	0.33 (1.1)	1.00	93 (21)	0.05	3.57%	1.18 (3.9)	1.00 (3.3)	1241 (279)	0.60
	34 (112)	0.51 (1.7)	1.50	62 (14)	0.03	3.70%	1.26 (4.1)	1.07 (3.5)	1232 (277)	0.60
	35 (115)	0.70 (2.3)	2.00	49 (11)	0.02	3.84%	1.34 (4.4)	1.14 (3.7)	1223 (275)	0.59
	39 (128)	1.17 (3.8)	3.00	36 (8)	0.02	4.23%	1.65 (5.4)	1.40 (4.6)	1237 (278)	0.60

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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: 6/5/2024

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