

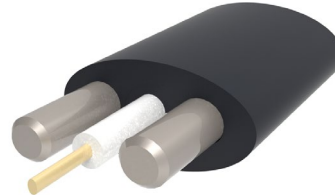
Sag & Tension Tables (NESC: Heavy) Mini-Flat Drop

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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):		1237	(278)
Max. Environmental Cable Strain (%):		0.60	(0.60)
Maximum Vertical Sag m (ft):		1.70	(5.6)



Design Specifications:		SI	US
Maximum Span m (ft):		41	(134)
Cable Weight kg/km (lb/mf):		19	(12)
Cable Diameter mm (in):		5.6	(0.22)
Cable Height mm (in):		2.8	(0.11)
Install Temp °C (°F):		20	(68.0)

Maximum Allowable Install Load and Strain			
Max. Install. Load N (lbf):		76	(17)
Max. Install. Cable Strain (%):		0.06	(0.06)

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)	(%)

	28 (92)	0.28 (0.9)	1.00	62 (14)	0.05	3.25%	0.91 (3.0)	0.81 (2.6)	1076 (242)	0.52
	27 (89)	0.41 (1.3)	1.50	40 (9)	0.04	3.30%	0.89 (2.9)	0.79 (2.6)	1019 (229)	0.50
	27 (89)	0.54 (1.8)	2.00	31 (7)	0.03	3.41%	0.92 (3.0)	0.82 (2.7)	988 (222)	0.48
	25 (82)	0.75 (2.5)	3.00	18 (4)	0.03	3.64%	0.91 (3.0)	0.81 (2.6)	859 (193)	0.41

	34 (112)	0.34 (1.1)	1.00	76 (17)	0.06	3.46%	1.18 (3.9)	1.04 (3.4)	1223 (275)	0.60
	35 (115)	0.53 (1.7)	1.50	53 (12)	0.04	3.59%	1.26 (4.1)	1.11 (3.7)	1214 (273)	0.59
	37 (121)	0.74 (2.4)	2.00	40 (9)	0.04	3.76%	1.39 (4.6)	1.23 (4.0)	1228 (276)	0.60
	41 (134)	1.23 (4.0)	3.00	31 (7)	0.03	4.14%	1.70 (5.6)	1.50 (4.9)	1237 (278)	0.60

	34 (112)	0.34 (1.1)	1.00	76 (17)	0.06	3.46%	1.18 (3.9)	1.04 (3.4)	1223 (275)	0.60
	35 (115)	0.53 (1.7)	1.50	53 (12)	0.04	3.59%	1.26 (4.1)	1.11 (3.7)	1214 (273)	0.59
	37 (121)	0.74 (2.4)	2.00	40 (9)	0.04	3.76%	1.39 (4.6)	1.23 (4.0)	1228 (276)	0.60
	41 (134)	1.23 (4.0)	3.00	31 (7)	0.03	4.14%	1.70 (5.6)	1.50 (4.9)	1237 (278)	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: 5/16/2024

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