

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

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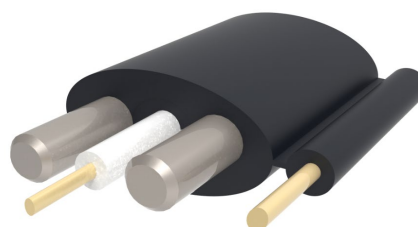
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Loading Conditions:	NESC LIGHT	SI	US
Ice Thickness mm (in):		0.00	(0.0)
Wind Pressure N/m ² (lb/ft ²):		430.92	(9.0)
Temperature °C (°F):		-1.1	(30.0)
Safety Factor N/m (ft*lb):		0.73	(0.54)

Environmental Conditions			
Max. Environmental Load N (lbf):		1210	(272)
Max. Environmental Cable Strain (%):		0.60	(0.60)
Maximum Vertical Sag m (ft):		0.40	(1.3)

Design Specifications:		SI	US
Maximum Span m (ft):		119	(390)
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):		289	(65)
Max. Install. Cable Strain (%):		0.14	(0.14)

Install Location	Max Span	Install Conditions at 20°C (68°F)				Loaded Conditions at -1°C (30°F)				
		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)	(%)

	90 (295)	0.90 (3.0)	1.00	249 (56)	0.12	0.28%	0.25 (0.8)	3.66 (12.0)	1090 (245)	0.54
	60 (197)	0.90 (3.0)	1.50	111 (25)	0.06	0.26%	0.16 (0.5)	2.29 (7.5)	774 (174)	0.38
	45 (148)	0.90 (3.0)	2.00	62 (14)	0.03	0.26%	0.12 (0.4)	1.67 (5.5)	596 (134)	0.29
	30 (98)	0.90 (3.0)	3.00	27 (6)	0.01	0.27%	0.08 (0.3)	1.18 (3.9)	378 (85)	0.19

	104 (341)	1.04 (3.4)	1.00	289 (65)	0.14	0.29%	0.30 (1.0)	4.42 (14.5)	1205 (271)	0.60
	112 (367)	1.68 (5.5)	1.50	209 (47)	0.10	0.31%	0.35 (1.2)	5.11 (16.8)	1205 (271)	0.60
	119 (390)	2.38 (7.8)	2.00	165 (37)	0.08	0.33%	0.40 (1.3)	5.76 (18.9)	1210 (272)	0.60
	91 (298)	2.73 (9.0)	3.00	85 (19)	0.04	0.34%	0.31 (1.0)	4.49 (14.7)	907 (204)	0.45

	104 (341)	1.04 (3.4)	1.00	289 (65)	0.14	0.29%	0.30 (1.0)	4.42 (14.5)	1205 (271)	0.60
	112 (367)	1.68 (5.5)	1.50	209 (47)	0.10	0.31%	0.35 (1.2)	5.11 (16.8)	1205 (271)	0.60
	119 (390)	2.38 (7.8)	2.00	165 (37)	0.08	0.33%	0.40 (1.3)	5.76 (18.9)	1210 (272)	0.60
	132 (433)	3.96 (13.0)	3.00	125 (28)	0.06	0.37%	0.49 (1.6)	7.12 (23.4)	1205 (271)	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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