

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

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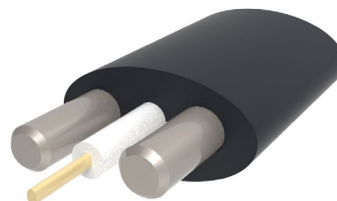
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Loading Conditions:	NESC LIGHT	SI	US
Ice Thickness mm (in):		0.00	(0.0)
Wind Pressure N/m ² (lb/ft ²):		430.92	(9.0)
Temperature °C (°F):		-1.1	(30.0)
Safety Factor N/m (ft*lb):		0.73	(0.54)

Environmental Conditions			
Max. Environmental Load N (lbf):		1201	(270)
Max. Environmental Cable Strain (%):		0.60	(0.60)
Maximum Vertical Sag m (ft):		0.48	(1.6)



Design Specifications:		SI	US
Maximum Span m (ft):		138	(453)
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):		0	(32.0)

Maximum Allowable Install Load and Strain			
Max. Install. Load N (lbf):		298	(67)
Max. Install. Cable Strain (%):		0.15	(0.15)

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	205 (46)	0.10	0.28%	0.26 (0.8)	3.43 (11.2)	925 (208)	0.46
	60 (197)	0.90 (3.0)	1.50	89 (20)	0.05	0.27%	0.16 (0.5)	2.15 (7.0)	658 (148)	0.33
	45 (148)	0.90 (3.0)	2.00	53 (12)	0.03	0.26%	0.12 (0.4)	1.58 (5.2)	503 (113)	0.25
	30 (98)	0.90 (3.0)	3.00	22 (5)	0.01	0.28%	0.08 (0.3)	1.14 (3.7)	311 (70)	0.16

	130 (426)	1.30 (4.3)	1.00	298 (67)	0.15	0.32%	0.41 (1.4)	5.52 (18.1)	1201 (270)	0.60
	138 (453)	2.07 (6.8)	1.50	209 (47)	0.11	0.34%	0.47 (1.5)	6.27 (20.6)	1192 (268)	0.60
	137 (449)	2.74 (9.0)	2.00	156 (35)	0.08	0.35%	0.48 (1.6)	6.48 (21.3)	1134 (255)	0.57
	91 (298)	2.73 (9.0)	3.00	71 (16)	0.03	0.35%	0.32 (1.0)	4.26 (14.0)	761 (171)	0.38

	130 (426)	1.30 (4.3)	1.00	298 (67)	0.15	0.32%	0.41 (1.4)	5.52 (18.1)	1201 (270)	0.60
	138 (453)	2.07 (6.8)	1.50	209 (47)	0.11	0.34%	0.47 (1.5)	6.27 (20.6)	1192 (268)	0.60
	148 (485)	2.96 (9.7)	2.00	169 (38)	0.08	0.36%	0.54 (1.8)	7.16 (23.5)	1201 (270)	0.60
	165 (541)	4.95 (16.2)	3.00	125 (28)	0.06	0.40%	0.67 (2.2)	8.91 (29.2)	1201 (270)	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
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