

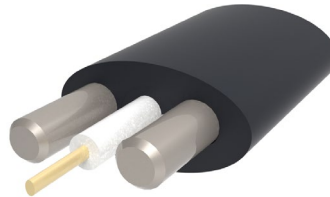
Sag & Tension Tables (NESC: Medium) Mini-Flat Drop

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Loading Conditions:	NESC MEDIUM	SI	US
Ice Thickness mm (in):		6.35	(0.3)
Wind Pressure N/m ² (lb/ft ²):		191.5	(4.0)
Temperature °C (°F):		-9.44	(15.0)
Safety Factor N/m (ft*lb):		2.92	(2.15)

Environmental Conditions			
Max. Environmental Load N (lbf):		1205	(271)
Max. Environmental Cable Strain (%):		0.60	(0.60)
Maximum Vertical Sag m (ft):		2.22	(7.3)



Design Specifications:		SI	US
Maximum Span m (ft):		74	(243)
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):		138	(31)
Max. Install. Cable Strain (%):		0.09	(0.09)

Install Location	Max Span	Install Conditions at 20°C (68°F)				Loaded Conditions at -9°C (15°C)				
		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)	(%)

	42 (138)	0.42 (1.4)	1.00	98 (22)	0.07	2.19%	0.92 (3.0)	1.40 (4.6)	939 (211)	0.46
	41 (134)	0.62 (2.0)	1.50	62 (14)	0.05	2.26%	0.93 (3.0)	1.41 (4.6)	890 (200)	0.44
	39 (128)	0.78 (2.6)	2.00	44 (10)	0.04	2.32%	0.90 (3.0)	1.37 (4.5)	823 (185)	0.40
	30 (98)	0.90 (3.0)	3.00	22 (5)	0.03	2.41%	0.72 (2.4)	1.10 (3.6)	609 (137)	0.30

	61 (200)	0.61 (2.0)	1.00	138 (31)	0.09	2.47%	1.51 (4.9)	2.29 (7.5)	1205 (271)	0.60
	64 (210)	0.96 (3.1)	1.50	98 (22)	0.07	2.60%	1.66 (5.4)	2.52 (8.3)	1205 (271)	0.60
	67 (220)	1.34 (4.4)	2.00	76 (17)	0.06	2.72%	1.82 (6.0)	2.76 (9.1)	1205 (271)	0.60
	74 (243)	2.22 (7.3)	3.00	58 (13)	0.05	3.00%	2.22 (7.3)	3.37 (11.1)	1205 (271)	0.60

	61 (200)	0.61 (2.0)	1.00	138 (31)	0.09	2.47%	1.51 (4.9)	2.29 (7.5)	1205 (271)	0.60
	64 (210)	0.96 (3.1)	1.50	98 (22)	0.07	2.60%	1.66 (5.4)	2.52 (8.3)	1205 (271)	0.60
	67 (220)	1.34 (4.4)	2.00	76 (17)	0.06	2.72%	1.82 (6.0)	2.76 (9.1)	1205 (271)	0.60
	74 (243)	2.22 (7.3)	3.00	58 (13)	0.05	3.00%	2.22 (7.3)	3.37 (11.1)	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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Specifications Subject to Change
Revision Date: 5/16/2024

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