

Sag & Tension Tables (NESC: Light) Self-Support All-Dielectric Outdoor Drop Cable O-036-DF-XY-F12NS/15T

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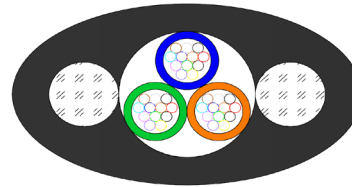
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Loading Conditions:	NESC LIGHT	SI	US
Ice Thickness mm (in):		0.00	(0.0)
Wind Pressure N/m ² (lb/ft ²):		430.9	(9.0)
Temperature °C (°F):		-1.1	(30.0)
Safety Factor N/m (ft*lb):		0.73	(0.54)


Environmental Conditions			
Max. Environmental Load N (lbf):		1254	(282)
Max. Environmental Cable Strain (%):		0.60	(0.60)
Maximum Vertical Sag m (ft):		0.46	(1.5)





Design Specifications:		SI	US
Maximum Span m (ft):		112	(367)
Cable Weight kg/km (lb/mf):		31	(21)
Cable Diameter mm (in):		8.0	(0.31)
Cable Height mm (in):		4.5	(0.18)
Install Temp °C (°F):		20	(68.0)

Maximum Allowable Install Load and Strain			
Max. Install. Load N (lbf):		365	(82)
Max. Install. Cable Strain (%):		0.20	(0.20)

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	347 (78)	0.19	0.35%	0.31 (1.0)	3.52 (11.5)	1201 (270)	0.58
	60 (197)	0.90 (3.0)	1.50	156 (35)	0.10	0.33%	0.20 (0.6)	2.22 (7.3)	845 (190)	0.41
	45 (148)	0.90 (3.0)	2.00	85 (19)	0.07	0.32%	0.14 (0.5)	1.63 (5.3)	649 (146)	0.31
	30 (98)	0.90 (3.0)	3.00	40 (9)	0.05	0.34%	0.10 (0.3)	1.14 (3.8)	409 (92)	0.20

	95 (312)	0.95 (3.1)	1.00	365 (82)	0.20	0.35%	0.33 (1.1)	3.78 (12.4)	1246 (280)	0.60
	104 (341)	1.56 (5.1)	1.50	267 (60)	0.16	0.38%	0.40 (1.3)	4.52 (14.8)	1250 (281)	0.60
	112 (367)	2.24 (7.3)	2.00	214 (48)	0.13	0.41%	0.46 (1.5)	5.21 (17.1)	1254 (282)	0.60
	91 (298)	2.73 (9.0)	3.00	116 (26)	0.08	0.43%	0.39 (1.3)	4.41 (14.5)	979 (220)	0.47

	95 (312)	0.95 (3.1)	1.00	365 (82)	0.20	0.35%	0.33 (1.1)	3.78 (12.4)	1246 (280)	0.60
	104 (341)	1.56 (5.1)	1.50	267 (60)	0.16	0.38%	0.40 (1.3)	4.52 (14.8)	1250 (281)	0.60
	112 (367)	2.24 (7.3)	2.00	214 (48)	0.13	0.41%	0.46 (1.5)	5.21 (17.1)	1254 (282)	0.60
	125 (410)	3.75 (12.3)	3.00	160 (36)	0.10	0.46%	0.58 (1.9)	6.55 (21.5)	1246 (280)	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: 5/14/2024

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