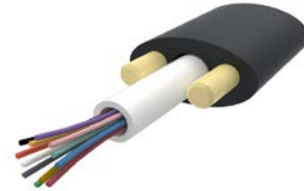


Sag & Tension Tables (NESC: Light) Self-Support All-Dielectric Outdoor Drop Cable O-012-DF-XY-F12NS/NR

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 kg (lbs):		153	(338)
Max. Environmental Cable Strain (%):		0.45	(0.45)
Maximum Vertical Sag m (ft):		0.66	(2.2)

Design Specifications:		SI	US
Maximum Span m (ft):		137	(449)
Cable Weight kg/km (lb/mf):		36	(24)
Cable Diameter mm (in):		8.0	(0.31)
Cable Height mm (in):		4.3	(0.17)
Install Temp °C (°F):		20	(68.0)



Maximum Allowable Install Load and Strain			
Max. Install. Load kg (lb):		45	(99)
Max. Install. Cable Strain (%):		0.15	(0.15)

Install Location	Install Conditions at 20 °C					Loaded Conditions at -1°C				
	Max Span	Sag	Install Sag	Tension	Cable Strain	Vertical Sag % of Span	Vertical Sag	Horizontal Sag	Tension	Cable Strain
	m (ft)	m (ft)	(%)	kg (lbs)	(%)	(%)	m (ft)	m (ft)	kg (lbs)	(%)

	90 (295)	0.90 (3.0)	1.00	40 (89)	0.14	0.34%	0.31 (1.0)	3.03 (9.9)	142 (313)	0.42
	60 (197)	0.90 (3.0)	1.50	18 (39)	0.07	0.32%	0.19 (0.6)	1.93 (6.3)	99 (219)	0.29
	45 (148)	0.90 (3.0)	2.00	10 (22)	0.05	0.32%	0.15 (0.5)	1.44 (4.7)	75 (165)	0.22
	30 (98)	0.90 (3.0)	3.00	4 (10)	0.03	0.36%	0.11 (0.4)	1.06 (3.5)	45 (99)	0.13

	100 (328)	1.00 (3.3)	1.00	45 (99)	0.15	0.35%	0.35 (1.2)	3.47 (11.4)	153 (338)	0.45
	110 (361)	1.65 (5.4)	1.50	33 (72)	0.12	0.39%	0.42 (1.4)	4.20 (13.8)	153 (338)	0.45
	119 (390)	2.38 (7.8)	2.00	27 (59)	0.10	0.42%	0.50 (1.6)	4.91 (16.1)	153 (338)	0.45
	137 (449)	4.11 (13.5)	3.00	20 (45)	0.08	0.48%	0.66 (2.2)	6.52 (21.4)	153 (337)	0.45

	100 (328)	1.00 (3.3)	1.00	45 (99)	0.15	0.35%	0.35 (1.2)	3.47 (11.4)	153 (338)	0.45
	110 (361)	1.65 (5.4)	1.50	33 (72)	0.12	0.39%	0.42 (1.4)	4.20 (13.8)	153 (338)	0.45
	119 (390)	2.38 (7.8)	2.00	27 (59)	0.10	0.42%	0.50 (1.6)	4.91 (16.1)	153 (338)	0.45
	137 (449)	4.11 (13.5)	3.00	20 (45)	0.08	0.48%	0.66 (2.2)	6.52 (21.4)	153 (337)	0.45

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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Revision Date: 2/26/2019

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