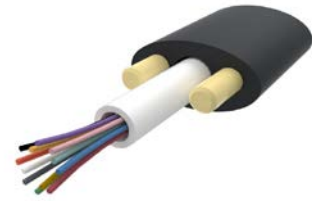


Sag & Tension Tables (NESC: Medium)

Self-Support All-Dielectric Outdoor Drop Cable

O-012-DF-XY-F12NS/NR




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 kg (lbs):		156	(344)
Max. Environmental Cable Strain (%):		0.45	(0.45)
Maximum Vertical Sag m (ft):		2.19	(7.2)


Design Specifications:		SI	US
Maximum Span m (ft):		76	(249)
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):		26	(58)
Max. Install. Cable Strain (%):		0.10	(0.10)

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

	45 (148)	0.45 (1.5)	1.00	20 (44)	0.08	2.04%	0.92 (3.0)	1.26 (4.1)	130 (286)	0.37
	43 (141)	0.65 (2.1)	1.50	13 (28)	0.06	2.12%	0.91 (3.0)	1.25 (4.1)	120 (264)	0.34
	41 (134)	0.82 (2.7)	2.00	9 (20)	0.05	2.21%	0.90 (3.0)	1.24 (4.1)	110 (242)	0.31
	30 (98)	0.90 (3.0)	3.00	4 (10)	0.03	2.34%	0.70 (2.3)	0.96 (3.1)	76 (167)	0.21

	59 (194)	0.59 (1.9)	1.00	26 (58)	0.10	2.23%	1.31 (4.3)	1.79 (5.9)	156 (344)	0.45
	63 (207)	0.95 (3.1)	1.50	19 (41)	0.08	2.43%	1.53 (5.0)	2.09 (6.9)	153 (337)	0.44
	67 (220)	1.34 (4.4)	2.00	15 (33)	0.07	2.54%	1.70 (5.6)	2.32 (7.6)	156 (343)	0.45
	76 (249)	2.28 (7.5)	3.00	11 (25)	0.05	2.88%	2.19 (7.2)	2.99 (9.8)	155 (343)	0.45

	59 (194)	0.59 (1.9)	1.00	26 (58)	0.10	2.23%	1.31 (4.3)	1.79 (5.9)	156 (344)	0.45
	63 (207)	0.95 (3.1)	1.50	19 (41)	0.08	2.43%	1.53 (5.0)	2.09 (6.9)	153 (337)	0.44
	67 (220)	1.34 (4.4)	2.00	15 (33)	0.07	2.54%	1.70 (5.6)	2.32 (7.6)	156 (343)	0.45
	76 (249)	2.28 (7.5)	3.00	11 (25)	0.05	2.88%	2.19 (7.2)	2.99 (9.8)	155 (343)	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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