



# Sag & Tension Tables (NESC: Light)

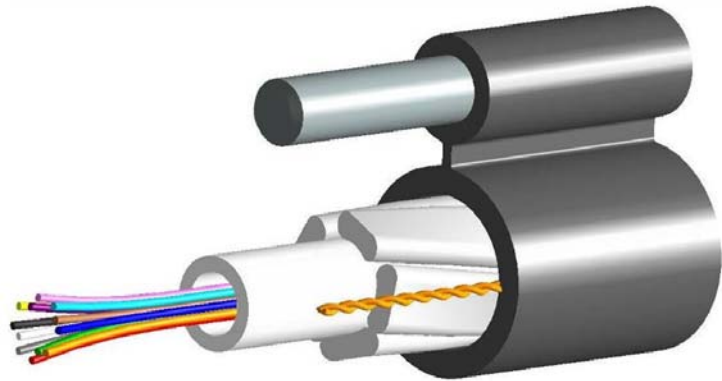
## Self-Support Non-Armor Figure-8 Outdoor Drop Cable

### M-012-DN-XY-F12NS/GSM

Loading Conditions:	NESC LIGHT	SI	US
Ice Thickness mm (in):		0.00	(0.0)
Wind Pressure N/m <sup>2</sup> (lb/ft <sup>2</sup> ):		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):		250	(551)
Max. Environmental Cable Strain (%):		0.28	(0.28)
Maximum Vertical Sag m (ft):		0.85	(3)

Design Specifications:		SI	US
Maximum Span m (ft):		145	(476)
Cable Weight kg/km (lb/ft):		70	(47)
Cable Diameter mm (in):		6.6	(0.26)
Cable Height mm (in):		11.3	(0.44)
Install Temp °C (°F):		20	(68.0)



Maximum Allowable Install Load and Strain			
Max. Install. Load kg (lb):		128	(283)
Max. Install. Cable Strain (%):		0.17	(0.17)

Install Location	Install Conditions at 20 °C					Loading Conditions at -18 °C						
	Max Span	Sag	Install Sag	Tension	Cable Strain	Vertical Sag % of Span	Vertical Sag	Horizontal Sag	Resultant Sag	Tension	Cable Strain	Blowout Angle
	m (ft)	m (ft)	(%)	kg (lbs)	(%)	(%)	m (ft)	(m)	(m)	kg (lbs)	(%)	(°)

	73 (239)	0.37 (1.2)	0.50	128 (283)	0.17	0.29%	0.21 (0.7)	1.52	1.54	250 (551)	0.28	81.97
	94 (308)	0.94 (3.1)	1.00	83 (182)	0.11	0.38%	0.36 (1.2)	2.53	2.56	249 (548)	0.28	81.97
	108 (354)	1.62 (5.3)	1.50	63 (140)	0.08	0.43%	0.47 (1.5)	3.33	3.36	250 (551)	0.28	81.97
	120 (394)	2.40 (7.9)	2.00	53 (116)	0.07	0.48%	0.58 (1.9)	4.11	4.15	250 (551)	0.28	81.97

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	120 (394)	2.40 (7.9)	2.00	53 (116)	0.07	0.48%	0.58 (1.9)	4.11	4.15	250 (551)	0.28	81.97
	145 (476)	4.35 (14.3)	3.00	42 (94)	0.06	0.58%	0.85 (2.8)	6.00	6.06	250 (550)	0.28	81.97

	94 (308)	0.94 (3.1)	1.00	83 (182)	0.11	0.38%	0.36 (1.2)	2.53	2.56	249 (548)	0.28	81.97
	120 (394)	2.40 (7.9)	2.00	53 (116)	0.07	0.48%	0.58 (1.9)	4.11	4.15	250 (551)	0.28	81.97
	145 (476)	4.35 (14.3)	3.00	42 (94)	0.06	0.58%	0.85 (2.8)	6.00	6.06	250 (550)	0.28	81.97

\* Long Distances with exceptionally large cable sags. † Street crossing distances with 18.0 ft attachment height and a 3.0 ft maximum sag ‡ Pedestrian crossing distances with 18.0 ft attachment height and a 9.0 ft maximum sag