



# Sag & Tension Tables (NESC: Medium)

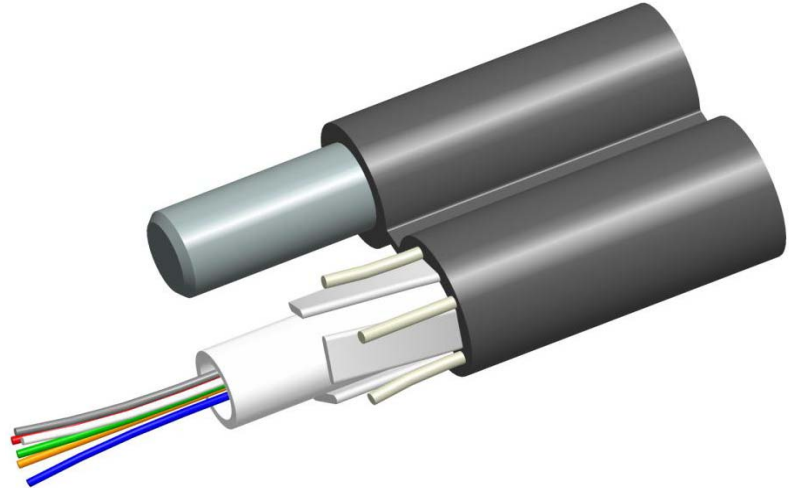
## Self-Support Non-Armor Figure-8 Outdoor Drop Cable

### M-006-MN-XY-F06NS/109

Loading Conditions:	NESC MEDIUM	SI	US
Ice Thickness mm (in):		6.35	(0.3)
Wind Pressure N/m <sup>2</sup> (lb/ft <sup>2</sup> ):		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):		449	(989)
Max. Environmental Cable Strain (%):		0.65	(0.65)
Maximum Vertical Sag m (ft):		7.59	(25)

Design Specifications:		SI	US
Maximum Span m (ft):		217	(712)
Cable Weight kg/km (lb/mf):		77	(52)
Cable Diameter mm (in):		5.1	(0.20)
Cable Height mm (in):		10.7	(0.42)
Install Temp °C (°F):		20	(68.0)



Maximum Allowable Install Load and Strain			
Max. Install. Load kg (lb):		156	(343)
Max. Install. Cable Strain (%):		0.25	(0.25)

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)	(%)	(°)

	56 (184)	0.28 (0.9)	0.50	108 (239)	0.17	1.62%	0.91 (3.0)	1.07	1.40	250 (551)	0.33	49.77
	50 (164)	0.50 (1.6)	1.00	48 (106)	0.08	1.79%	0.90 (2.9)	1.06	1.39	201 (444)	0.26	49.77
	47 (154)	0.71 (2.3)	1.50	30 (67)	0.05	1.90%	0.89 (2.9)	1.06	1.38	179 (394)	0.22	49.77
	45 (148)	0.90 (3.0)	2.00	22 (48)	0.03	2.03%	0.91 (3.0)	1.08	1.41	160 (354)	0.19	49.77

	116 (380)	1.16 (3.8)	1.00	112 (247)	0.18	2.35%	2.72 (8.9)	3.22	4.22	357 (787)	0.50	49.77
	105 (344)	2.10 (6.9)	2.00	51 (112)	0.08	2.59%	2.72 (8.9)	3.21	4.21	293 (646)	0.40	49.77
	96 (315)	2.88 (9.4)	3.00	31 (68)	0.05	2.84%	2.73 (8.9)	3.22	4.22	244 (538)	0.32	49.77

	161 (528)	1.61 (5.3)	1.00	156 (343)	0.25	2.59%	4.18 (13.7)	4.94	6.47	448 (989)	0.65	49.77
	192 (630)	3.84 (12.6)	2.00	93 (204)	0.15	3.09%	5.94 (19.5)	7.02	9.19	449 (989)	0.65	49.77
	217 (712)	6.51 (21.4)	3.00	70 (154)	0.11	3.50%	7.59 (24.9)	8.97	11.75	448 (989)	0.65	49.77

\* 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