



# Sag & Tension Tables (NESC: Light)

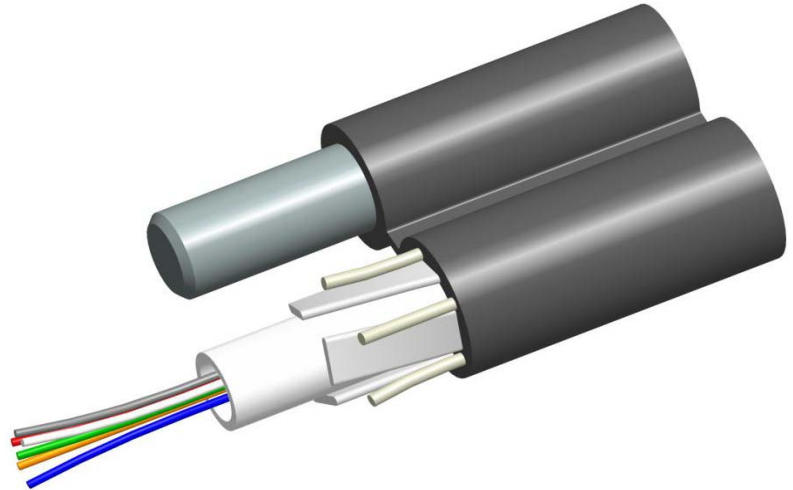
## Self-Support Non-Armor Figure-8 Outdoor Drop Cable

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

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):		438	(966)
Max. Environmental Cable Strain (%):		0.65	(0.65)
Maximum Vertical Sag m (ft):		2.81	(9)

Design Specifications:		SI	US
Maximum Span m (ft):		333	(1,092)
Cable Weight kg/km (lb/mft):		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):		307	(677)
Max. Install. Cable Strain (%):		0.49	(0.49)

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)	(%)	(°)

	159 (522)	0.80 (2.6)	0.50	307 (677)	0.49	0.41%	0.64 (2.1)	3.92	3.97	436 (962)	0.65	80.66
	171 (561)	1.71 (5.6)	1.00	165 (364)	0.26	0.53%	0.91 (3.0)	5.54	5.61	357 (788)	0.52	80.66
	158 (518)	2.37 (7.8)	1.50	102 (224)	0.16	0.58%	0.91 (3.0)	5.55	5.62	305 (672)	0.44	80.66
	149 (489)	2.98 (9.8)	2.00	72 (159)	0.11	0.61%	0.91 (3.0)	5.54	5.61	271 (598)	0.38	80.66

	225 (738)	2.25 (7.4)	1.00	217 (479)	0.35	0.57%	1.29 (4.2)	7.83	7.94	437 (964)	0.65	80.66
	287 (941)	5.74 (18.8)	2.00	139 (306)	0.22	0.73%	2.09 (6.9)	12.73	12.90	438 (965)	0.65	80.66
	325 (1,066)	9.75 (32.0)	3.00	105 (231)	0.17	0.84%	2.73 (9.0)	16.61	16.83	430 (949)	0.64	80.66

	225 (738)	2.25 (7.4)	1.00	217 (479)	0.35	0.57%	1.29 (4.2)	7.83	7.94	437 (964)	0.65	80.66
	287 (941)	5.74 (18.8)	2.00	139 (306)	0.22	0.73%	2.09 (6.9)	12.73	12.90	438 (965)	0.65	80.66
	333 (1,092)	9.99 (32.8)	3.00	107 (236)	0.17	0.85%	2.81 (9.2)	17.12	17.35	438 (966)	0.65	80.66

\* 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