



Sag & Tension Tables (NESC: Heavy)

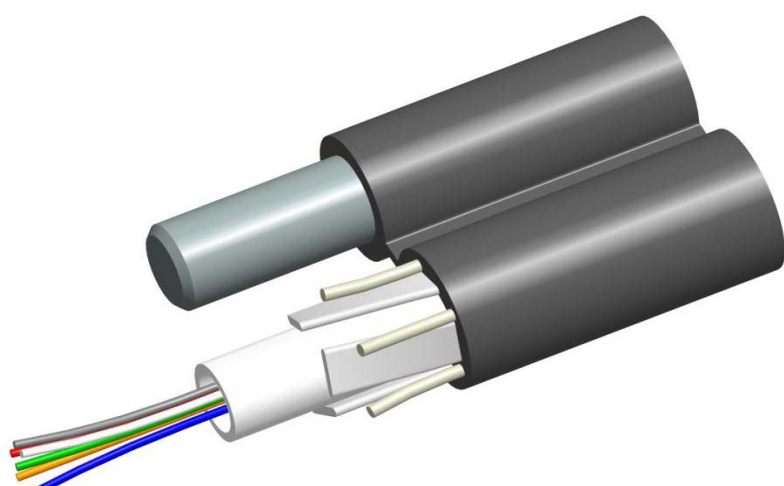
Self-Support Non-Armor Figure-8 Outdoor Drop Cable

M-006-MN-XY-F06NS/109

Loading Conditions:	NESC HEAVY	SI	US
Ice Thickness mm (in):		12.70	(0.5)
Wind Pressure N/m ² (lb/ft ²):		191.5	(4.0)
Temperature °C (°F):		-17.8	(0.0)
Safety Factor N/m (ft*lb):		4.38	(3.23)

Environmental Conditions			
Max. Environmental Load kg (lbs):		462	(1,017)
Max. Environmental Cable Strain (%):		0.65	(0.65)
Maximum Vertical Sag m (ft):		5.68	(19)

Design Specifications:		SI	US
Maximum Span m (ft):		128	(420)
Cable Weight kg/km (lb/ft):		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):		98	(215)
Max. Install. Cable Strain (%):		0.15	(0.15)

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)	(%)	(°)
	39 (128)	0.20 (0.6)	0.50	75 (166)	0.12	2.33%	0.91 (3.0)	0.69	1.14	267 (590)	0.34	37.28
	36 (118)	0.36 (1.2)	1.00	35 (77)	0.06	2.48%	0.89 (2.9)	0.68	1.12	233 (513)	0.29	37.28
	35 (115)	0.53 (1.7)	1.50	23 (50)	0.04	2.60%	0.91 (3.0)	0.69	1.14	216 (475)	0.26	37.28
	33 (108)	0.66 (2.2)	2.00	16 (35)	0.03	2.71%	0.89 (2.9)	0.68	1.12	195 (430)	0.23	37.28
	82 (269)	0.82 (2.7)	1.00	79 (175)	0.13	3.29%	2.69 (8.8)	2.05	3.39	399 (881)	0.55	37.28
	77 (253)	1.54 (5.1)	2.00	37 (82)	0.06	3.52%	2.71 (8.9)	2.06	3.41	350 (771)	0.47	37.28
	72 (236)	2.16 (7.1)	3.00	23 (51)	0.04	3.79%	2.73 (9.0)	2.08	3.43	304 (670)	0.40	37.28
	101 (331)	1.01 (3.3)	1.00	98 (215)	0.15	3.52%	3.55 (11.7)	2.71	4.47	459 (1,013)	0.65	37.28
	115 (377)	2.30 (7.5)	2.00	56 (122)	0.09	3.99%	4.59 (15.1)	3.50	5.77	461 (1,016)	0.65	37.28
	128 (420)	3.84 (12.6)	3.00	41 (91)	0.07	4.44%	5.68 (18.6)	4.32	7.14	462 (1,017)	0.65	37.28

* 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