



Sag & Tension Tables (NESC: Medium)

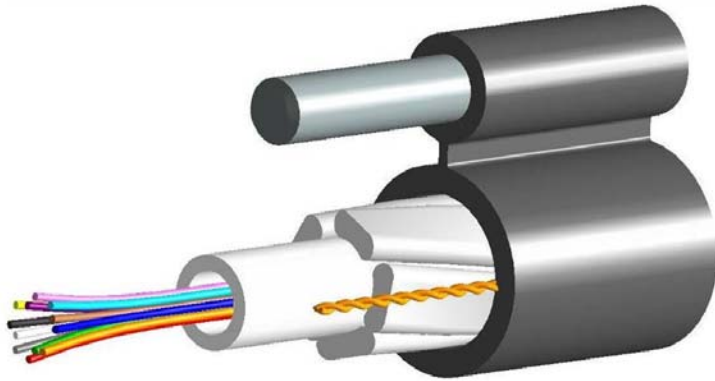
Self-Support Non-Armor Figure-8 Outdoor Drop Cable

M-012-DN-XY-F12NS/GSM

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):		250	(550)
Max. Environmental Cable Strain (%):		0.26	(0.26)
Maximum Vertical Sag m (ft):		2.46	(8)

Design Specifications:		SI	US
Maximum Span m (ft):		92	(302)
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):		90	(198)
Max. Install. Cable Strain (%):		0.12	(0.12)

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)	(%)	(°)

	51 (167)	0.26 (0.8)	0.50	90 (198)	0.12	1.50%	0.76 (2.5)	0.92	1.19	247 (545)	0.26	50.20
	53 (174)	0.53 (1.7)	1.00	47 (103)	0.06	1.72%	0.91 (3.0)	1.09	1.42	224 (493)	0.23	50.20
	50 (164)	0.75 (2.5)	1.50	29 (65)	0.04	1.82%	0.91 (3.0)	1.09	1.42	199 (439)	0.19	50.20
	47 (154)	0.94 (3.1)	2.00	21 (46)	0.03	1.94%	0.91 (3.0)	1.09	1.42	176 (389)	0.16	50.20

	62 (203)	0.62 (2.0)	1.00	55 (120)	0.07	1.81%	1.13 (3.7)	1.35	1.76	248 (547)	0.26	50.20
	76 (249)	1.52 (5.0)	2.00	33 (74)	0.04	2.23%	1.69 (5.5)	2.03	2.64	248 (547)	0.26	50.20
	92 (302)	2.76 (9.1)	3.00	27 (59)	0.04	2.68%	2.46 (8.1)	2.96	3.85	250 (550)	0.26	50.20

	62 (203)	0.62 (2.0)	1.00	55 (120)	0.07	1.81%	1.13 (3.7)	1.35	1.76	248 (547)	0.26	50.20
	76 (249)	1.52 (5.0)	2.00	33 (74)	0.04	2.23%	1.69 (5.5)	2.03	2.64	248 (547)	0.26	50.20
	92 (302)	2.76 (9.1)	3.00	27 (59)	0.04	2.68%	2.46 (8.1)	2.96	3.85	250 (550)	0.26	50.20

* 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