

Sag & Tension Tables (NESC: Heavy)

Self-Support All-Dielectric Outdoor Drop Cable

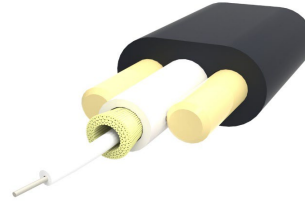
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Loading Conditions:	NESC HEAVY	SI	US
Ice Thickness mm (in):	12.70	(0.5)	
Wind Pressure N/m ² (lb/ft ²):	191.5	(4.0)	
Temperature °C (°F):	-17.8	(0.0)	
Safety Factor N/m (ft*lb):	4.38	(3.23)	

Environmental Conditions			
Max. Environmental Load N (lbf):	1334	(300)	
Max. Environmental Cable Strain (%):	0.50	(0.50)	
Maximum Vertical Sag m (ft):	1.45	(4.7)	



Design Specifications:		SI	US
Maximum Span m (ft):	37	(121)	
Cable Weight kg/km (lb/mf):	39	(26)	
Cable Diameter mm (in):	8.0	(0.31)	
Cable Height mm (in):	4.6	(0.18)	
Install Temp °C (°F):	20	(68.0)	

Maximum Allowable Install Load and Strain			
Max. Install. Load N (lbf):	142	(32)	
Max. Install. Cable Strain (%):	0.08	(0.08)	

Install Location	Install Conditions at 20°C (68°F)					Loaded Conditions at -18°C (0°F)				
	Max Span	Sag	Install Sag	Tension	Cable Strain	Vertical Sag % of Span	Vertical Sag	Horizontal Sag	Tension	Cable Strain
	m (ft)	m (ft)	(%)	N (lbf)	(%)	(%)	m (ft)	m (ft)	N (lbf)	(%)

	29 (95)	0.29 (1.0)	1.00	138 (31)	0.08	3.11%	0.90 (3.0)	0.75 (2.4)	1294 (291)	0.48
	28 (92)	0.42 (1.4)	1.50	89 (20)	0.06	3.19%	0.89 (2.9)	0.74 (2.4)	1219 (274)	0.45
	28 (92)	0.56 (1.8)	2.00	67 (15)	0.05	3.32%	0.93 (3.0)	0.77 (2.5)	1174 (264)	0.43
	25 (82)	0.75 (2.5)	3.00	40 (9)	0.04	3.54%	0.89 (2.9)	0.73 (2.4)	979 (220)	0.36

	30 (98)	0.30 (1.0)	1.00	142 (32)	0.08	3.15%	0.94 (3.1)	0.78 (2.6)	1326 (298)	0.49
	32 (105)	0.48 (1.6)	1.50	102 (23)	0.06	3.33%	1.07 (3.5)	0.88 (2.9)	1334 (300)	0.50
	33 (108)	0.66 (2.2)	2.00	80 (18)	0.05	3.49%	1.15 (3.8)	0.95 (3.1)	1317 (296)	0.49
	37 (121)	1.11 (3.6)	3.00	58 (13)	0.05	3.91%	1.45 (4.7)	1.20 (3.9)	1317 (296)	0.49

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Note: Assumptions made regarding Install Locations. Changes to these assumptions may change the Max Spans.

† Street crossing distances with 18.0 ft attachment height and a 3.0 ft maximum vertical sag.

‡ Pedestrian crossing distances with 18.0 ft attachment height and a 9.0 ft maximum vertical sag.

* Max span with no limits imposed on sag.

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Specifications Subject to Change
 Revision Date: 2/22/2024

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