

Cable Bundle							
Cable Bundle	X-SECT AREA	EFF MODULUS	NOMINAL DIAM	EFF. EXP. COEFF.	CABLE WEIGHT	E*A LOAD BEARING CAPACITY	RATED LOAD
Name	(sq.in)	(psi)	(in)	(1/F)	(lb/ft)	(lbs)	(lbs)
1/4"6.6mEHS	0.035	2.60E+07	0.250	5.60E-06	0.121	9.15E+05	6650
P3-625JCA	0.369	2.13E+06	0.685	1.69E-05	0.138	7.83E+05	475

Calculated Bundle (in)
0.935

Calculated Bundle (lb/ft)
0.259

NESC Results											
Loading Condition Name	Temp F	Ice Load lb/ft	Horz Wind Load lb/sqft	Result Load+ Const lb/ft	Sag ft	Tension lb	% Len Chg From Input Conditions	Sag @ 25 ft	Horz Sag Comp ft	Vert Sag Comp ft	Vector Angle Deg
User Defined 1	0	0.892	4	1.620	3.80	2125	0.09	0.24	1.86	3.32	29.3
Z32A1	120	0.000	0	0.259	1.63	794	0.01	0.10	0.00	1.63	0.0
User Defined 2	32	0.892		1.151	3.29	1743	0.06	0.21	0.00	3.29	0.0

Effects of Temperature Change			
Temp F	Midspan Sag ft	Tension lb	% Length Change
-40	0.86	1495	-0.01
-30	0.89	1447	-0.01
-20	0.92	1399	0.00
-10	0.96	1352	0.00
0	0.99	1305	0.00
10	1.03	1258	0.00
20	1.07	1212	0.00
30	1.11	1167	0.00
40	1.15	1122	0.00
50	1.20	1077	0.00
60	1.25	1034	0.00
70	1.30	991	0.00
80	1.36	949	0.00
90	1.42	909	0.00
100	1.49	869	0.00
110	1.56	831	0.01
120	1.63	794	0.01
130	1.71	758	0.01
140	1.79	724	0.01

Tension Results	
Span Length:	200.00 ft
Span Sag:	1.25 ft
Span Tension:	1036 lb
Max Load:	6650 lb
Usable Load (60%):	3990 lb
Usable Load (80%):	5320 lb
Catenary Length:	200.02 ft
Stress Free Length at Installed Temperature:	199.79 ft
Unloaded Strand	
Sag:	0.63 ft
Tension:	965 lb

User Defined Loadings			
Temperature F	Ice Thickness in	Wind lb/sq ft	Constant lb/ft
0	0.50	4.00	0.30
32	0.50		

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