

SHEAVE SELECTION

Maximum Cable Diameter per Sheave

Sheave Diameter (Inches)	Single/Multi Conductor Power (Inches)	Armor (Inches)	Control Cable (Inches)	Shielded 600 Volt Power (Inches)	MV Power Shielded (Inches)
6	0.375	0.214	0.150	0.107	0.125
12	0.984	0.563	0.940	0.281	0.328
18	1.750	1.000	0.700	0.500	0.583
24	2.453	1.402	0.981	0.701	0.818

Examples of Minimum Bend Radii

600 Volt Cable	Multiply	Sample Diameter	Calculation	Resulting Minimum Bend Radii
Less than 1"	4	0.75" O.D.	4 X 0.75	3" Radius
1" - 2"	5	1.5" O.D.	5 X 1.5	7.5" Radius
2" or Larger	6	3.0" O.D.	6 X 3	18" Radius
Interlocked Armor	7	3.0" O.D.	7 X 3	21" Radius

- Notes:**
- 1.) You must select the sheave by radius NOT diameter.
 - 2.) Sidewall limits for most cables are 500 lbs. per foot radius maximum.
 - 3.) All tensions on a cable pull are additive.

Pull considerations:

1. Plan direction of cable pulls to minimize tension by putting as many bends as possible early in the pull.
2. Proper setups cost initially, but will save by creating safer and easier pulls.
3. Published allowable conductor tensions are for STRAIGHT PULLS ONLY.
4. Published allowable equipment loading does not apply to the sidewall pressure of the cable pull.

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