

MAXIMUM PULLING TENSIONS

Pulling Eyes Method

Maximum pulling tension for use with a pulling eye can be determined from the following formula:

$$T_{max} = k \times n \times CA$$

Where:

- k = 0.008 for copper
0.006 for aluminum
- n = number of conductors
- CA = conductor area of one conductor,
in circular mils

T_{max} should not exceed 6,000 lb. for a single conductor cable.

T_{max} should not exceed 10,000 lb. for 2 or more conductors.

Pulling Grip Method

Maximum pulling tension when using a basket type grip should not exceed 1,000 lb. or the value determined in the above formula, whichever is smaller.

- Notes:**
- 1.) *Do not exceed the load stated by the manufacturer of the pulling device.*
 - 2.) *Do not consider the area of neutral or grounding conductors in cable(s) when calculating maximum pulling tensions.*
 - 3.) *Pulling tensions should be reduced by 20% to 40% when several conductors are being pulled simultaneously (in parallel) since the tension will not be distributed evenly among conductors.*
 - 4.) *The above procedure pertains to straight pulls, and does not consider side wall loading.*

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