



COLONIAL WIRE & CABLE CO.
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MAXIMUM PULLING TENSION ON A CABLE

Formula for maximum pulling tension when pulling copper cable with attached appropriate pulling eye. Maximum allowable conductor stress should not exceed .008 times of the circular mil area.

$$T = .008 \times N \times CMA$$

T - MAXIMUM PULLING TENSION IN POUNDS
 N - NUMBER OF CONDUCTORS IN PULL
 CMA - CIRCULAR MILL AREA OF EACH CABLE

MINIMUM INSTALLATION TEMPERATURES
 THWN-2 -10 deg C / 14 deg F
 XHHW-2, USE-2 -40 deg C / -40 deg F

Size AWG	CMA	Size AWG or Kcmil	CMA
18	1620	1/0	105600
16	2580	2/0	133100
14	4110	3/0	167800
12	6530	4/0	211600
10	10380	250	250000
8	16510	300	300000
6	26240	350	350000
4	41740	400	400000
3	52620	500	500000
2	66360	600	600000
1	83690	750	750000
		1000	1000000

Note: Installation must be done in accordance with the requirements of the National Electric Code (NEC) & all local, city and state codes.

We disclaim all liability in connection with the use of information herein or otherwise.