



ENGINEERING SPECIFICATIONS:



Standards:

Underwriters Laboratories Standard UL-83
 Federal Specification A-A-59544
 NEMA WC70/ICEA S-95-658
 NFPA 70: National Electrical Code (NEC)
 ARRA 2009; Section 1605 "Buy American" Compliant

CONSTRUCTION:

Conductors:

Stranded, uncoated bare copper per ASTM-B3, ASTM-B787 and ASTM-B8

Insulation:

Color-coded Polyvinyl Chloride (PVC), heat and moisture-resistant, flame-retardant compound

Applications:

Type THW-2 conductor is intended for general purpose applications utilized in conduit or other raceways for services, feeders, and branch-circuit wiring as specified in the National Electric Code (NEC). May be used in wet or dry locations at temperatures not to exceed 90°C. Type THW-2 is permitted for 600 volt applications.

Features:

Sunlight Resistant in all colors for 6 AWG and larger. Sequential foot markings every foot on 250 KCMIL and larger. For 1 AWG through 4/0 AWG, sequential foot markings on master reels only unless otherwise specified. Rated VW-1. 1/0 AWG and larger may be used in cable tray in accordance with the National Electrical Code (NEC).

Type THW-2 Copper Conductor 600V

Size (AWG or KCMIL)	Number of Strands	Insulation Thickness PVC (in)	Outside Diameter (in)	Allowable Ampacity (Amps)*		Approximate Net Weight (lbs/1000 ft)	Standard Packaging (ft)
				75°C	90°C		
14	19	0.030	0.140	20	25	21	2000' carton (4x500) 2500' reels
12	19	0.030	0.160	25	30	29	500' 2500' reels
10	19	0.030	0.180	35	40	45	500' 2500' reels
8	7*	0.045	0.240	50	55	70	500' 1000' 2500' 5000' reels
6	7*	0.060	0.300	65	75	115	500' 1000' 2500' 5000' reels
4	7*	0.060	0.350	85	95	164	500' 1000' 2500' 5000' reels
3	7*	0.060	0.380	100	110	206	500' 1000' 2500' 5000' reels
2	7*	0.060	0.410	115	130	235	500' 1000' 2500' 5000' reels
1	19	0.080	0.490	130	150	320	500' 1000' 2500' 5000' reels
1/0	19	0.080	0.530	150	170	365	500' 1000' 2500' 5000' reels
2/0	19	0.080	0.570	175	195	440	500' 1000' 2500' 5000' reels
3/0	19	0.080	0.620	200	225	620	500' 1000' 2500' 5000' reels
4/0	19	0.080	0.680	230	260	770	500' 1000' 2500' 5000' reels
250	37	0.095	0.750	255	290	894	500' 1000' 2500' reels
300	37	0.095	0.810	285	320	1010	500' 1000' 3500' reels
350	37	0.095	0.860	310	350	1231	500' 1000' 3000' reels
400	37	0.095	0.900	335	380	1350	500' 1000' 3000' reels
500	37	0.095	0.979	380	430	1720	500' 1000' 2500' reels
600	61	0.110	1.086	420	475	2028	500' 1000' 2000' reels
750	61	0.110	1.188	475	535	2511	500' 1000' 1500' reels
1000	61	0.110	1.337	545	615	3288	500' 1000' reels

*8 AWG-2 AWG: 19/w is available by request.

*Allowable ampacity shown above is per the National Electrical Code. The above data is approximate and subject to normal manufacturing tolerances.

PRINT LEGEND:

CONDUCTOR SIZES 14 AWG THROUGH 8 AWG: ENCORE WIRE CORPORATION (size) TYPE THW-2 600 VOLTS GR II VW-1 (UL) DATE/TIME/OPER/QC

STRANDED CONDUCTORS 6 AWG THROUGH 1 AWG: ENCORE WIRE CORPORATION (size) TYPE THW-2 600 VOLTS GR II SUN-RES VW-1 (UL) DATE/TIME/OPER/QC

STRANDED CONDUCTOR SIZES 1/0 AWG THROUGH 1000 KCMIL: ENCORE WIRE CORPORATION (size) TYPE THW-2 600 VOLTS GR II SUN-RES VW-1 FOR CT USE (UL) DATE/TIME/OPER/QC