

TEW/MTW/AWM Single Conductor 105C, 600V

Applications: TEW - For internal wiring of electrical equipment, for leads of transformers, motors, etc., and for luminous-tube signs and ignition systems. For use in raceways for Class 1 circuits. MTW - For use as Machine-Tool Wires. AWM - For use as factory installed internal wiring of appliances and other equipment.

Conductors: 22 AWG to 4/0 AWG bare or tinned copper.

Insulation: Polyvinyl chloride (PVC)

Voltage Rating: 600V

Temperature Rating: -30°C* to 105°C Dry, 60°C when exposed to water or oil.

Flame Rating: VW-1

Standards: CSA C22.2 No. 127, UL 1063, UL 758

Gauge AWG	Strand Count	Nominal Insulation Thickness		Nominal Diameter		Nominal Cable Weight		Ampacity (amps) ** 30°C Ambient
		mm	in.	mm	in.	kgs/km	lbs/mft	
18 ²	1	0.76	0.030	2.62	0.103	14	31	6
16 ²	1	0.76	0.030	2.87	0.113	19	42	8
14 ²	1	0.76	0.030	3.20	0.126	27	60	17
12 ²	1	0.76	0.030	3.63	0.143	39	86	23
10 ²	1	0.76	0.030	4.19	0.165	59	130	28
22 ¹	7	0.76	0.030	2.34	0.092	8	18	3
16 ²	7	0.76	0.030	3.05	0.120	20	44	8
14 ²	7	0.76	0.030	3.43	0.135	28	62	17
12 ²	7	0.76	0.030	3.94	0.155	42	93	23
10 ²	7	0.76	0.030	4.55	0.179	62	137	28
8 ³	7	1.14	0.045	6.10	0.240	102	225	40
6 ⁴	7	1.52	0.060	7.82	0.308	166	366	55
4 ⁴	7	1.52	0.060	9.04	0.356	246	542	70
2 ⁵	7	1.52	0.060	10.62	0.418	373	822	95
14 ²	19	0.76	0.030	3.45	0.136	28	62	17
12 ²	19	0.76	0.030	3.96	0.156	42	93	23
10 ²	19	0.76	0.030	4.57	0.180	62	137	28
8 ⁶	19	1.14	0.045	6.15	0.242	103	227	40
6 ⁷	19	1.52	0.060	7.90	0.311	167	368	55
4 ⁷	19	1.52	0.060	9.14	0.360	250	551	70
2 ¹¹	19	1.52	0.060	10.72	0.422	375	827	95
20 ¹	10	0.76	0.030	2.54	0.100	11	24	4
18 ¹	16	0.76	0.030	2.77	0.109	14	31	6
16 ¹	26	0.76	0.030	3.07	0.121	20	44	8
14 ¹	41	0.76	0.030	3.45	0.136	28	62	17
12 ¹	65	0.76	0.030	3.96	0.156	41	90	23
10 ¹	104	0.76	0.030	4.57	0.180	60	132	28
8 ⁶	165	1.14	0.045	6.17	0.243	101	223	40
6 ⁷	266	1.52	0.060	8.56	0.337	172	379	55
4 ⁷	413	1.52	0.060	9.91	0.390	252	556	70
2 ⁸	665	1.52	0.060	11.79	0.464	384	847	95
1 ⁹	836	2.03	0.080	13.94	0.549	503	1109	110
1/0 ⁹	1064	2.03	0.080	15.21	0.599	622	1371	125
2/0 ⁹	1330	2.03	0.080	16.56	0.652	759	1673	145
3/0 ⁹	1672	2.03	0.080	18.08	0.712	937	2066	165
4/0 ⁹	2109	2.03	0.080	19.05	0.750	1108	2443	195
8 ⁶	133	1.14	0.045	6.63	0.261	105	231	40
6 ⁷	133	1.52	0.060	8.48	0.334	170	375	55
4 ⁷	133	1.52	0.060	9.93	0.391	253	558	70
2 ¹⁰	133	1.52	0.060	11.71	0.461	381	840	95
1 ¹⁰	133	2.03	0.080	13.84	0.545	499	1100	110

Specifications: ¹ TEW MTW AWM 1015 1230, ² TEW AWM 1015 1230, ³ TEW AWM 1028 1231, ⁴ TEW AWM 1232 1283, ⁵ TEW AWM 1232 1650,

⁶ TEW MTW AWM 1028 1231, ⁷ TEW MTW AWM 1232 1283, ⁸ TEW MTW AWM 1232 1650, ⁹ TEW MTW AWM 1232 1284, ¹⁰ TEW MTW AWM 1284 1650,

¹¹ TEW MTW AWM 1232 1650. Types listed for use as MTW are intended for flexing service.

*The -30°C low temperature rating indicates that the cables have passed a cold bend test under carefully controlled laboratory conditions. These conditions may or may not reflect actual field conditions. It is therefore recommended that all cables be warmed to at least -10°C before installation.

** For multiple conductors in cable or conduit the maximum current rating is subject to the derating factors in CEC Part 1, rule 4-014 (1) (b) (c) (d) and (e).

Notes: All dimensions are nominal and are subject to normal manufacturing tolerance. Specifications are subject to change without notice.