

TEW/MTW/AWM/Boat Cable/Marine

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	CE Code	NFPA 79
18 ²	1	0.76	0.030	2.62	0.103	14	9	6	14
16 ²	1	0.76	0.030	2.87	0.113	19	13	8	18
14 ²	1	0.76	0.030	3.20	0.126	27	18	17	25
12 ²	1	0.76	0.030	3.63	0.143	39	26	23	30
10 ²	1	0.76	0.030	4.19	0.165	59	40	28	40
16 ²	7	0.76	0.030	3.05	0.120	20	13	8	18
14 ²	7	0.76	0.030	3.43	0.132	28	19	17	25
12 ²	7	0.76	0.030	3.94	0.151	41	28	23	30
10 ²	7	0.76	0.030	4.55	0.176	61	41	28	40
8 ³	7	1.14	0.045	6.10	0.235	101	68	40	55
6 ⁴	7	1.52	0.060	7.82	0.302	163	110	55	75
4 ⁴	7	1.52	0.060	9.04	0.349	243	163	70	95
2 ⁴	7	1.52	0.060	10.62	0.409	368	247	95	130
14 ²	19	0.76	0.030	3.45	0.136	29	19	17	25
12 ²	19	0.76	0.030	3.96	0.156	42	28	23	30
10 ²	19	0.76	0.030	4.57	0.180	62	42	28	40
8 ⁶	19	1.14	0.045	6.15	0.242	103	69	40	55
6 ⁷	19	1.52	0.060	7.90	0.311	167	112	55	75
4 ⁷	19	1.52	0.060	9.14	0.360	250	168	70	95
2 ⁷	19	1.52	0.060	10.72	0.422	375	252	95	130
22 ¹	7	0.76	0.030	2.34	0.092	8	5	3	3
20 ¹	10	0.76	0.030	2.54	0.100	11	7	4	5
18 ¹	16	0.76	0.030	2.77	0.109	14	9	6	14
16 ⁵	26	0.76	0.030	3.07	0.121	20	13	8	18
14 ⁵	41	0.76	0.030	3.45	0.136	28	19	17	25
12 ⁵	65	0.76	0.030	3.96	0.156	41	28	23	30
10 ⁵	104	0.76	0.030	4.57	0.181	61	41	28	40
8 ⁶	165	1.14	0.045	6.17	0.243	101	68	40	55
6 ⁷	266	1.52	0.060	8.56	0.337	173	116	55	75
4 ⁷	413	1.52	0.060	9.91	0.390	252	169	70	95
2 ⁷	665	1.52	0.060	11.79	0.464	384	258	95	130
1 ⁸	836	2.03	0.080	13.94	0.549	503	338	110	150
1/0 ⁸	1064	2.03	0.080	15.21	0.599	622	418	125	170
2/0 ⁸	1330	2.03	0.080	16.56	0.652	759	510	145	195
3/0 ⁸	1672	2.03	0.080	18.08	0.712	937	630	165	225
4/0 ⁸	2109	2.03	0.080	19.05	0.750	1108	745	195	260
8 ⁶	133	1.14	0.045	6.63	0.261	106	71	40	55
6 ⁷	133	1.52	0.060	8.48	0.334	170	114	55	75
4 ⁷	133	1.52	0.060	9.93	0.391	253	170	70	95
2 ⁷	133	1.52	0.060	11.71	0.461	381	256	95	130
1 ⁸	133	2.03	0.080	13.82	0.544	499	335	110	150

Specifications: ¹ TEW AWM I A/B MTW AWM 1015 1230 SAE J1128, ² TEW AWM 1015 1230, ³ TEW AWM 1028 1231, ⁴ TEW AWM 1232 1283,

⁵ TEW AWM I A/B MTW AWM 1015 1230 BC-5W2, ⁶ TEW AWM I A/B MTW AWM 1028 1231 BC-5W2, ⁷ TEW AWM I A/B MTW AWM 1232 1283 BC-5W2,

⁸ TEW AWM I A/B MTW AWM 1232 1284 BC-5W2

Types listed for use as MTW are intended for flexing service.

*The 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.

**Ampacities are provided for engineering information only. Final determination of wire size/ampacity will be governed by local jurisdiction.

Ampacity values per Canadian Electrical Code Table 12 and NFPA 79, 12.3.1, Table 12.5.1.

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

TEW  LL39965

Application: 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.

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: FT1
Standard: CSA22.2 No. 127- Equipment and lead wires

AWM  LL39965

Application: For internal wiring of appliances and other equipment, potentially subject to mechanical abuse.

Conductors: 22 AWG to 4/0 AWG bare or tinned copper.
Insulation: Polyvinyl chloride (PVC)
Voltage Rating: 600V
Temperature Rating: -15°C* to 105°C Dry, 60°C when exposed to water or oil.
Flame Rating: FT1
Standard: CSA C22.2 No. 210- Appliance wiring material products

MTW  E173285

Application: For use as Machine-Tool Wires.

Conductors: 22 AWG to 4/0 AWG bare or tinned copper.
Insulation: Polyvinyl chloride (PVC)
Voltage Rating: 600V
Temperature Rating: -25°C* to 90°C Dry, 60°C when exposed to water or oil.
Flame Rating: VW-1
Standard: UL 1063- Machine-Tool Wires and Cables

AWM  E76241

Application: For use as factory installed internal wiring of appliances and other equipment.
Styles: 1015, 1028, 1230, 1231, 1232, 1283, 1284

Conductors: 22 AWG to 4/0 AWG bare or tinned copper.
Insulation: Polyvinyl chloride (PVC)
Voltage Rating: 600V
Temperature Rating: -40°C* to 105°C Dry, 60°C when exposed to water or oil.
Flame Rating: VW-1
Standard: UL 758- Appliance Wiring Material

Boat Cable  E306583

Application: For general circuit wiring in marine pleasure craft.

Conductors: 16 AWG to 4/0 AWG bare or tinned copper.
Insulation: Polyvinyl chloride (PVC)
Voltage Rating: 600V
Temperature Rating: -25°C* to 105°C Dry, 75°C when exposed to water or oil.
Flame Rating: VW-1
Standards: UL 1426- Electrical Cables for Boats
US Coast Guard Title 33, CFR 183 Subpart I- Electrical Systems
US Coast Guard Title 46, CFR 183- Electrical Installation
ABYC E-11- AC & DC Electrical Systems On Boats

Marine 

Application: For wiring in marine pleasure craft where permitted.

Conductors: 22 AWG to 18 AWG bare or tinned copper.
Insulation: Polyvinyl chloride (PVC)
Voltage Rating: 60V
Temperature Rating: -40°C* to 80°C
Flame Rating: N/A
Standards: SAE J378- Marine Propulsion System Wiring.
SAE J1128- Low Voltage Primary Cable