

## Boat Cable Single-Conductor 105C, 600V

*Applications:* BC-5W2 - For general circuit wiring in marine pleasure craft.

*Conductors:* 16 AWG to 4/0 AWG tinned copper.

*Insulation:* Polyvinyl chloride (PVC)

*Voltage Rating:* 600V

*Temperature Rating:* -30°C\* to 105°C Dry, 75°C wet, 60°C when exposed to oil.

*Flame Rating:* VW-1, FT1, FT2

*Standards:* CSA C22.2 No. 127, CSA C22.2 No. 210, UL 1426, UL 758, UL 1063, US Coast Guard Title 46, ABYC

Gauge AWG	Strand Count	Nominal Insulation Thickness		Nominal Diameter		Nominal Cable Weight		Ampacity (amps) **† Single Conductor
		mm	in.	mm	in.	kgs/km	lbs/mft	
16 <sup>1</sup>	26	0.76	0.030	3.07	0.121	20	13	25
14 <sup>1</sup>	41	0.76	0.030	3.45	0.136	28	19	35
12 <sup>1</sup>	65	0.76	0.030	3.96	0.156	41	28	45
10 <sup>1</sup>	104	0.76	0.030	4.57	0.181	61	41	60
8 <sup>2</sup>	165	1.14	0.045	6.17	0.243	101	68	80
6 <sup>3</sup>	266	1.52	0.060	8.56	0.337	173	116	120
4 <sup>3</sup>	413	1.52	0.060	9.91	0.390	252	169	160
2 <sup>4</sup>	665	1.52	0.060	11.79	0.464	384	258	210
1 <sup>5</sup>	836	2.03	0.080	13.94	0.549	503	338	245
1/0 <sup>5</sup>	1064	2.03	0.080	15.21	0.599	622	418	285
2/0 <sup>5</sup>	1330	2.03	0.080	16.56	0.652	759	510	330
3/0 <sup>5</sup>	1672	2.03	0.080	18.08	0.712	937	630	385
4/0 <sup>5</sup>	2109	2.03	0.080	19.05	0.750	1108	745	445

Specifications: <sup>1</sup>TEW AWM I A/B BC-5W2 AWM 1015 1230 MTW, <sup>2</sup>TEW AWM I A/B BC-5W2 AWM 1028 1231 MTW, <sup>3</sup>TEW AWM I A/B BC-5W2 AWM 1232 1283 MTW

<sup>4</sup>TEW AWM I A/B BC-5W2 AWM 1232 1650 MTW, <sup>5</sup>TEW AWM I A/B BC-5W2 AWM 1232 1284 MTW

\*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.

\*\* Amperage derating factors. For wires in engine compartments: 85%. For 3 current carrying conductors: 70%, 4 to 6: 60%, 7 to 24: 50%, 25 or more 40%.

† Ampacity rating per US Coast Guard regulations Title 33, Chapter I, Part 183.425 for use as boat cable. For other applications, refer to the appropriate electrical code.

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