

## Boat Cable Multi-Conductor Flat, 105C, 600V

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

Conductors : 18 AWG to 6 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, US Coast Guard Title 46, ABYC

| Gauge<br>AWG<br>(Strands) | Circuit<br>Conductor<br>Count | Bonding<br>AWG<br>(Strands) | Nominal Insulation<br>Thickness |       | Nominal Jacket<br>Thickness |       | Nominal<br>Cable Dimensions |              | Ampacity**† |
|---------------------------|-------------------------------|-----------------------------|---------------------------------|-------|-----------------------------|-------|-----------------------------|--------------|-------------|
|                           |                               |                             | mm                              | in.   | mm                          | in.   | mm                          | in.          |             |
| 18 (16) <sup>1</sup>      | 2                             | none                        | 0.76                            | 0.030 | 0.76                        | 0.030 | 4.42 x 7.21                 | .174 x .284  | 20          |
| 18 (16) <sup>2</sup>      | 2                             | 18 (16)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 4.42 x 8.98                 | .174 x .393  | 20          |
| 18 (16) <sup>2</sup>      | 3                             | 18 (16)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 4.42 x 12.80                | .174 x .504  | 14          |
| 16 (26) <sup>1</sup>      | 2                             | none                        | 0.76                            | 0.030 | 0.76                        | 0.030 | 4.72 x 7.82                 | .186 x .308  | 25          |
| 16 (26) <sup>2</sup>      | 2                             | 16 (26)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 4.72 x 10.95                | .186 x .431  | 25          |
| 16 (26) <sup>2</sup>      | 3                             | 16 (26)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 4.72 x 14.02                | .186 x .552  | 17          |
| 14 (41) <sup>1</sup>      | 2                             | none                        | 0.76                            | 0.030 | 0.76                        | 0.030 | 5.13 x 8.59                 | .202 x .338  | 35          |
| 14 (41) <sup>2</sup>      | 2                             | 14 (41)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 5.13 x 12.09                | .202 x .476  | 35          |
| 14 (41) <sup>2</sup>      | 3                             | 14 (41)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 5.13 x 15.60                | .202 x .614  | 24          |
| 12 (65) <sup>1</sup>      | 2                             | none                        | 0.76                            | 0.030 | 0.76                        | 0.030 | 5.64 x 7.06                 | .222 x .378  | 45          |
| 12 (65) <sup>2</sup>      | 2                             | 12 (65)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 5.64 x 13.61                | .222 x .536  | 45          |
| 12 (65) <sup>2</sup>      | 3                             | 12 (65)                     | 0.76                            | 0.030 | 0.76                        | 0.030 | 5.64 x 17.63                | .222 x .694  | 31          |
| 10 (104) <sup>1</sup>     | 2                             | none                        | 0.76                            | 0.030 | 0.76                        | 0.030 | 6.27 x 10.92                | .247 x .430  | 60          |
| 10 (104) <sup>3</sup>     | 2                             | 10 (104)                    | 0.76                            | 0.030 | 0.76                        | 0.030 | 6.27 x 15.57                | .247 x .613  | 60          |
| 10 (104) <sup>3</sup>     | 3                             | 10 (104)                    | 0.76                            | 0.030 | 0.76                        | 0.030 | 6.27 x 20.17                | .247 x .794  | 42          |
| 8 (168) <sup>4</sup>      | 2                             | none                        | 1.14                            | 0.045 | 0.76                        | 0.030 | 8.26 x 15.88                | .325 x .617  | 80          |
| 8 (168) <sup>3</sup>      | 2                             | 8 (168)                     | 1.14                            | 0.045 | 1.14                        | 0.045 | 9.14 x 22.71                | .360 x .894  | 80          |
| 6 (266) <sup>4</sup>      | 2                             | none                        | 1.52                            | 0.060 | 0.76                        | 0.030 | 10.29 x 18.90               | .405 x .744  | 120         |
| 6 (266) <sup>3</sup>      | 2                             | 6 (266)                     | 1.52                            | 0.060 | 1.14                        | 0.045 | 11.05 x 28.32               | .435 x 1.115 | 120         |

Specifications: <sup>1</sup> TEW AWM II A/B BC-5W2, <sup>2</sup> AWM II A/B BC-5W2, <sup>3</sup> AWM I A/B BC-5W2, <sup>4</sup> TEW AWM I A/B BC-5W2

\* 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.

\*\* Maximum current carrying capacity, excluding intermittent surges, in locations outside engine spaces. For inside engine spaces and other conditions of use derating factors see US Coast Guard regulations Title 33, Chapter I, Parts 183.430 and 183.435 of the CFR.

† 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.