CnC Tech

PVC Insulated Marine Cable

UL Style 1426 Type BC-5W2

UL Recognized: E333812

P/N: 1426-XX-1-XXX-0XX-1-TS

Conductor		Insulation		Electrical Character	
Solid Diameter or Stranding Diameter AWG (mm^2)	Composition No/Diameter of Component Wire (mm)	Insulation Nominal Thickness (mm)	Approximate Overall Diameter (mm)	Rated Voltage	Maximum Conductor Resistance Ω/km
16AWG (1.31mm^2)	26/0.254 Tinned Strands	0.85	3.2 ±0.15	600V	14.7
14AWG (2.08mm^2)	41/0.254 Tinned Strands	0.85	3.6 ±0.15	600V	9.25
12 AWG (3.31mm^2)	65/0.254 Tinned Strands	0.85	4.1 ±0.2	600V	5.82
10AWG (5.26mm^2)	105/0.254 Tinned Strands	0.85	4.7 ±0.2	600V	3.66
8AWG (8.37mm^2)	7/24/0.254 Tinned Strands	1.30	6.7 ±0.4	600V	2.35
6AWG (13.3mm^2)	7/38/0.254 Tinned Strands	1.65	8.5 ±0.4	600V	1.48

1. Surface Printing:

   MARINE CABLE NO. AWG E333812 (UL) BOAT CABLE BC-5W2 VW-1 105°C DRY 75°C WET 600V OIL RESISTANT PACIFIC LF

   Note: Marking may be some modification which must be complied with UL requirements.
2. Conductor: Tinned annealed copper strands wire
3. Rated Temperature: 105°C DRY 75°C WET
4. Insulation Material: Lead free PVC
5. The Lead Free cable can meet EU RoHS requirements.

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6. Electrical Properties:

Insulation Resistance(15℃):	16AWG：Min. 210MΩ-km 14AWG：Min. 175MΩ-km 12AWG：Min. 150MΩ-km 10AWG：Min. 125MΩ-km 8AWG：Min. 130MΩ-km 6AWG：Min. 135MΩ-km
Dielectric Test:	1500V/1min, No breakdown (10~16AWG) 2000V/1min, No breakdown (6~8AWG)

Physical Properties

Insulation：	
Tensile Strength:	Min. 2000psi
Elongation:	Min. 150%
Aging test:	136℃ for 168 hours
Retention of Tensile Strength:	Min. 75%
Retention of Elongation:	Min. 65%
Deformation Test:	The thickness of insulation shall not decrease more than 50% when subjected to a temperature of 121℃ for 1 hour and loaded a 400~750 grams (16~6AWG) weight.
Heat Shock Test:	No crack shall be shown on the surface after 1 hour at 121℃ when the finished wire tightly wound for 4 turns onto a mandrel of 2~16 mm (16~6AWG) diameter.
Cold Bend Test:	No crack shall be shown on the surface after 4 hours at -25℃ when the finished wire tightly wound for 5 turns onto a mandrel of 6~32 mm (16~6AWG) diameter.
Oil Resistance Test:	The retention of tensile strength and elongation of the insulation shall not be less than 50% of the unconditioned value after immersion of the finished wire in IRM 902 oil for 96 hours at 100℃.
Flame Retardant Test:	UL subject 758 VW-1

7. Packing: 6-8AWG: 100M/reel, 10-16AWG: 250M/ reel
8. Country of Origin: Taiwan

P/N's & COLORS				
1426-XX-1-XXX-001-1-TS BLACK	1426-XX-1-XXX-002-1-TS WHITE	1426-XX-1-XXX-003-1-TS YELLOW	1426-XX-1-XXX-004-1-S RED	1426-XX-1-XXX-007-1-TS GREEN

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