


**AMC OCEANFLEX-YAC**

## Application

OceanFlex YAC is a tinned copper marine-grade battery cable designed to meet the requirements of ISO 13297, the international standard governing the design, construction, and installation of extra-low-voltage direct current (DC) and single-phase alternating current (AC) electrical systems on small craft. ISO 13297 requires that DC negative terminal conductors be yellow when an AC system is installed aboard, in order to prevent confusion with the black neutral conductor used in AC circuits. Where no AC system is present, the standard permits black for DC negative. This colour distinction is a deliberate safety measure: by reserving black for the AC neutral conductor and mandating yellow for the DC negative in mixed-system vessels, ISO 13297 reduces the risk of maintenance personnel misidentifying conductors, which could otherwise lead to short circuits, equipment damage, or electric shock.

## Environmental statement

AMC take every action possible to ensure we are a sustainable, and environmentally aware manufacturer. End of life care; ensure that all cable product is disposed of inline with relevant WEEE Regulations.

## Specification

|                       |                   |
|-----------------------|-------------------|
| Voltage               | 300v              |
| Cores                 | Class 5 Conductor |
| Sheath                | PVC               |
| Operating Temperature | -15° to 70°C      |

## Standards (Compliance / Certification)

|                                                 |
|-------------------------------------------------|
| BS EN 60228:2005 Conductor                      |
| IEC60332-1-2                                    |
| ISO13297                                        |
| Small craft-Electrical systems-AC installations |

| Part No. | Conductor Specification (mm) | Conductor Cross Section (mm <sup>2</sup> ) | Minimum Overall Diameter (mm) | Max Resistance (mΩ/m) | Voltage Rating (DC) | Sheath Colours | Reel Sizes (Metres) |
|----------|------------------------------|--------------------------------------------|-------------------------------|-----------------------|---------------------|----------------|---------------------|
| CM16Y    | 203/0.3                      | 16                                         | 7.90                          | 1.210                 | 300v DC             | Yellow         | 10, 50              |
| CM25Y    | 322/0.3                      | 25                                         | 9.50                          | 0.727                 |                     |                | 10, 50              |
| CM35Y    | 455/0.3                      | 35                                         | 11.30                         | 0.524                 |                     |                | 10, 50              |
| CM50Y    | 637/0.3                      | 50                                         | 12.30                         | 0.386                 |                     |                | 10, 50              |
| CM70Y    | 912/0.3                      | 70                                         | 14.80                         | 0.272                 |                     |                | 10, 30, 50          |
| CM95Y    | 684/0.3                      | 95                                         | 16.50                         | 0.206                 |                     |                | 10, 30, 50          |

## Typical Applications



BATTERY POWER  
(NEGATIVE ONLY)



INVERTERS



MATERIAL  
HANDLING



STARTER  
SYSTEMS



ENGINE ROOMS  
AND ENCLOSED  
AREAS

The conductor specifications shown are representative configurations; actual cable strand may differ slightly, but will meet the resistance values shown. Nominal current amperage ratings are provided as a guide only, and can vary depending on the application, condition and environmental factors. If in doubt, please consult a qualified electrician.