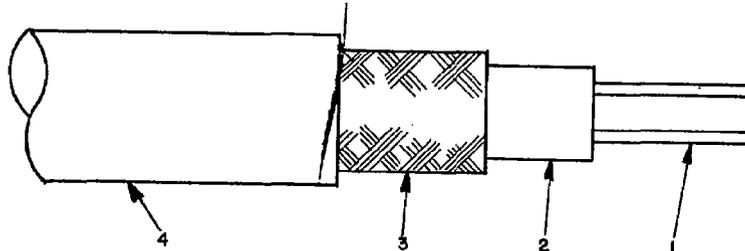


MILITARY SPECIFICATION SHEET

CABLE, COAXIAL (SUBMARINE USE) TYPE RG-294A/U

The complete requirements for procuring cable described herein shall consist of this document and the latest issue of MIL-C-23020(SHIPS).



Description

Constructional details

- | | | | | | | | |
|---|--|----------|----|------|----|------------|------------------|
| <p>Ⓐ (1) Inner conductors</p> <p>(2) Cable core</p> <p>(3) Outer conductor</p>
<p>Ⓐ (4) Jacket</p> | <p>The conductor nominal diameter .0808. One conductor shall be tinned for circuit identification and the other conductor shall be uncoated. Conductors shall be twisted with a maximum lay of 24 inches, with 5/32 inch spacing between conductors.</p> <p>Solid, type A. Overall diameter 0.472 ± 0.010 inch.</p> <p>Single braid, AWG-33 silver copper wire, overall diameter 0.540 inch maximum. The outer conductor shall be filled with a suitable blocking compound.</p> <table border="0"> <tr> <td>Carriers</td> <td>24</td> </tr> <tr> <td>Ends</td> <td>10</td> </tr> <tr> <td>Picks/inch</td> <td>7.5 ± 10 percent</td> </tr> </table> <p>Type IIIA of MIL-C-17 - Overall diameter 0.630 ± 0.010 inch. Minimum jacket thickness 0.040 inch (Other jacket materials may be used, provided the cable meets all other requirements, including non-contamination, and is colored black for protection against ultraviolet radiation (see MIL-C-17)).</p> | Carriers | 24 | Ends | 10 | Picks/inch | 7.5 ± 10 percent |
| Carriers | 24 | | | | | | |
| Ends | 10 | | | | | | |
| Picks/inch | 7.5 ± 10 percent | | | | | | |

Note: Other types of construction which would result in a more watertight cable may be used, provided permission is obtained from the procuring activity.

Ⓐ Denotes changes

FSC 6145

Requirements

Dielectric strength	- 10,000 volts rms.
Capacitance unbalance	- 10 percent maximum.
Attenuation	- 10 db/100 ft. max. at 400 mc.
Impedance	- 95 ± 5 ohms.
Hydrostatic test:	
Fitting	- MX-2646/U (Drawing REB49397)
Leakage	- "0" cubic inch
Pressure	- 1000 p. s. i.
Duration	- 2 hours.
Abrasion	- 500 revolutions.

Preparing activity:
Navy - EC
(Project 0145-N037)