



# RG 214 U Marine

Trippelshielded

50Ω

SHF1

DNV / ABS

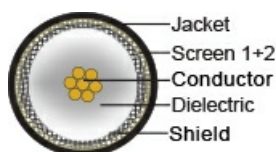
## Application

Coaxial cable for ship and other marine environments with Extra screen for excellent EMC properties. For for VHF/UHF equipment. MIL 17-C/75. Also meets the requirements of Anatel.



## Construction

|              |                                               |
|--------------|-----------------------------------------------|
| Conductor    | Stranded Silvercoated Cu 7 x 0.75 [mm]        |
| Dielectricum | Low density PE 7.25 ± 0,18 [mm]               |
| Screen       | Al - polyester tape 100 [% optical coverage]  |
| Screen       | Silvercoated Cu braid 94 [% optical coverage] |
| Screen 2     | Silvercoated Cu braid 98 [% optical coverage] |
| Jacket       | Black SHF1                                    |
| O.D.         | 10.8 ± 0.18 [mm]                              |
| Weight       | 206 [kg/km]                                   |



## Specifications

|                              |                   |
|------------------------------|-------------------|
| Operating temperature normal | -40 – +70 [°C]    |
| Characteristic impedance     | 50±2 [Ω]          |
| Braid Resistance             | 4.2 [Ω/km]        |
| Conductor resistance         | 6 [Ω/km]          |
| Test voltage                 | 10 [kV]           |
| Capacitance                  | 100 [pF/m]        |
| Min. bending radius          | 15 [x outer diam] |



## Norms

|                                                    |                                    |
|----------------------------------------------------|------------------------------------|
| Halogenfree, max content corrosive and toxic gases | IEC 60754-1 & IEC 60754-2          |
| Material properties, insulation and sheath         | IEC 60092-359                      |
| Design and testing standards                       | IEC 60096-0-1 Ed 3 IEC 61196-1-100 |
| Flame resistance                                   | IEC 60332-3-22 & IEC 60332-3-24    |
| Flame retardant                                    | IEC 60332-1-2                      |
| Smoke emission                                     | IEC 61034-2                        |
| Oil and fuel resistant                             | IEC 60811-3-1                      |
| UV-resistant                                       | UL 1581, ISO 4892                  |
| Certification                                      | DNV / ABS                          |

|          |         |
|----------|---------|
| Part No. | 1092444 |
|----------|---------|

Available with MUD resistance, part.no. 1092446





## Attenuation

| Frequency (MHz) | Attenuation Max. (dB/100m) |
|-----------------|----------------------------|
| 5               | 1.1                        |
| 10              | 1.5                        |
| 50              | 3.8                        |
| 100             | 5.4                        |
| 200             | 7.9                        |
| 300             | 9.9                        |
| 500             | 12.9                       |
| 600             | 14.5                       |
| 800             | 17.2                       |
| 1000            | 19.6                       |
| 1350            | 23.5                       |
| 1500            | 24.8                       |
| 1750            | 27.4                       |
| 2150            | 30.9                       |
| 2250            | 31.8                       |
| 2500            | 34.0                       |
| 2750            | 36.0                       |
| 3000            | 37.6                       |
| 5500            | 55                         |

## Structural return loss dB

| MHz         | dB   |
|-------------|------|
| 30 - 300    | > 31 |
| 300 - 600   | > 28 |
| 600 - 1000  | > 27 |
| 1000 - 2000 | > 24 |
| 2000 - 3000 | > 22 |

## Screening effectiveness IEC 61196-1

| MHz         | dB   |
|-------------|------|
| 100 - 900   | > 90 |
| 900 - 2000  | > 80 |
| 2000 - 3000 | > 70 |