

RG 11 A/U Marine ARM

75Ω, PE

Al tape + Cu braided screen

+ armour steel wire braid, Equal to RG 12

SHF1

DNV / ABS

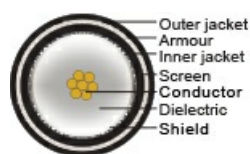
Application

Coaxial cable for data- and video use, suitable for installation on board of ship and other marine environments. Electrical data in compliance with MIL C-17/F. Steel wire braid armour meets requirements of EMC directive. The cable design equals RG 12, but with slightly improved electrical data.



Construction

| | |
|----------------|---|
| Conductor | Stranded Tinned Cu 7 x 0,40 [mm] |
| Dielectricum | PE 7,25 ± 0,18 [mm] |
| Screen | Al + polyester + Al tape 100 [% optical coverage] |
| Screen 2 | Cu- braid 96 [% optical coverage] 192 x 0,18 [mm] |
| Inner jacket | SHF1 Ø = 10.3 ± 0.18 [mm] |
| Armour alt.1 | Galvanised steel wire braid |
| Armour alt.2 | Tinned Cu-braid |
| Armour alt.3 | Bronze wire braid |
| Jacket | Black or grey SHF1 |
| O.D. | 13.50 ± 0.20 [mm] |
| Weight | 277 [kg/km] |
| Jacket marking | RG 11 AU Marine SHF1 Armoured DNV IEC 60332-3-22 |



Specifications

| | |
|------------------------------|-------------------|
| Operating temperature normal | -40 – 70 [°C] |
| Braid Resistance | 4.4 [Ω/km] |
| Conductor resistance | 22.5 [Ω/km] |
| Test voltage | 5.5 [kV] |
| Capacitance | 67 [pF/m] |
| Min. bending radius | 5 [x outer diam] |
| Min. bending radius flexible | 10 [x outer diam] |



Norms

| | |
|--|-----------------------------|
| Halogenfree, max content corrosive and toxic gases | IEC 60754-1 and IEC 60754-2 |
| Design and testing standards | IEC 60096-0-1 Ed 3 |
| Flame resistance | IEC 60332-3-22 Cat.A |
| Flame retardant | IEC 60332-1 |
| Smoke emission | IEC 61034-1 and IEC 61034-2 |
| Certification | DNV / ABS |

| | |
|----------|-----------------------------|
| Part No. | 1092457-Black, 1092499-Grey |
|----------|-----------------------------|



Suitable connector: F-J11 RG 11 ARM, prod.no: 65458
Alternative product with MUD resistant jacket, part number 1092459



Attenuation

| Frequency (MHz) | Attenuation Max. (dB/100m) |
|-----------------|----------------------------|
| 5 | 1,1 |
| 10 | 1,3 |
| 50 | 4,2 |
| 100 | 6,1 |
| 200 | 9,2 |
| 300 | 11,8 |
| 500 | 16,0 |
| 600 | 17,9 |
| 800 | 21,4 |
| 1000 | 24,3 |
| 1350 | 29,1 |
| 1500 | 31,0 |
| 1750 | 35,0 |
| 2150 | 40,2 |
| 2250 | 40,5 |
| 2500 | 42,4 |
| 2750 | 45,0 |
| 3000 | 49,0 |



Structural return loss dB

| MHz | dB |
|-------------|------|
| 30 - 300 | > 30 |
| 300 - 600 | > 27 |
| 600 - 1000 | > 25 |
| 1000 - 2000 | > 22 |
| 2000 - 3000 | > 20 |

Screening effectiveness IEC 61196-1

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

Updated

| Date | Rev. | Description |
|------------|------|----------------------------------|
| 28.11.2015 | 1 | |
| 16.11.2016 | 2 | ABS approval, minor text changes |