



# RF 600 Marine 75Ω SHF2

**Flexible Low-loss  
SHF2, UV  
75Ω**

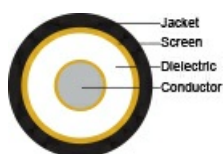
## Application

Flexible low loss cable for video, CCTV, baseband and broadband applications. The cable can be used in offshore environments. The bending and handling characteristics are significant better than any smooth wall or corrugated hardline cables. Additionally, the cable provides low loss performance and high shielding effectiveness ensuring minimal signal degradation over long distances. Outer jacket SHF2 and UV-resistant.



## Construction

|              |                                                                 |
|--------------|-----------------------------------------------------------------|
| Conductor    | Solid Copper-clad Al 2.74 [mm]                                  |
| Dielectricum | Foamed PE 11.60 ± 0.15 [mm]                                     |
| Screen       | Al-polyester + Al tape                                          |
| Screen 2     | Tinned Cu braid 90 [% optical coverage] 12.45 (288 x 0.15) [mm] |
| Jacket       | Black SHF2 UV-resistant                                         |
| O.D.         | 15.00 ± 0.20 [mm]                                               |
| Weight       | 206 [kg/km]                                                     |



## Specifications Coax

|                                     |                   |
|-------------------------------------|-------------------|
| Temperature range                   | -40 – +80 [°C]    |
| Temperature range at installation   | -20 – +60 [°C]    |
| Temperature range storage           | -40 – +80 [°C]    |
| DC-resistance centre conductor      | 4.7 [Ω/km]        |
| DC-resistance screen                | 3.9 [Ω/km]        |
| Impedance                           | 75 ± 3 [Ω]        |
| Capacitance                         | 53 [pF/m]         |
| Velocity factor                     | 84 [%]            |
| Voltage withstand                   | 6 [kV]            |
| Min bending radius installed        | 5 [x outer diam.] |
| Min. bending radius at installation | 10 [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 60811-3-1                   |
| Flame resistance                                   | IEC 60332-3-22 & IEC 60332-3-24 |
| Flame retardant                                    | IEC 60332-1-2                   |
| Smoke emission                                     | IEC 61034-2                     |



|          |         |
|----------|---------|
| Prod.no. | 3030008 |
|----------|---------|

## Attenuation nominal, max 105%

| Frequency MHz | Attenuation dB/100m |
|---------------|---------------------|
| 5             | 0.5                 |
| 10            | 0.6                 |
| 50            | 1.9                 |
| 100           | 2.6                 |
| 200           | 3.9                 |
| 300           | 4.3                 |
| 470           | 5.7                 |
| 600           | 6.7                 |
| 862           | 8.2                 |
| 1000          | 8.8                 |
| 1350          | 10.6                |
| 1500          | 10.9                |
| 1750          | 12.0                |
| 2150          | 13.7                |
| 2400          | 14.4                |
| 2750          | 15.7                |
| 3000          | 16.2                |



## Structural return loss

| MHz         | dB   |
|-------------|------|
| 30 – 470    | > 27 |
| 470 – 862   | > 22 |
| 862 – 2150  | > 19 |
| 2150 – 3000 | > 16 |
| 3000 – 4500 | > 15 |

## Screening Effectiveness dB (EN 50117)

| MHz         | dB $\Omega$ /m |
|-------------|----------------|
| 5 – 30      | < 5            |
| 30 – 1000   | > 95           |
| 1000 – 2000 | > 90           |
| 2000 – 3000 | > 80           |