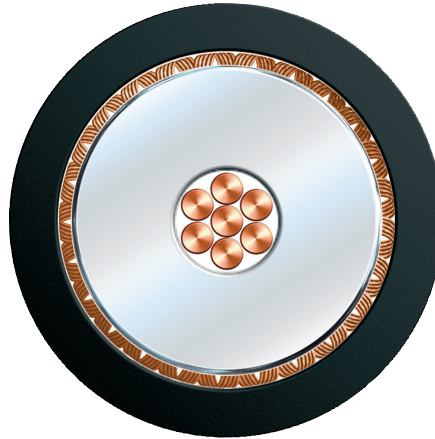


## RG213/U LSZH SHF-1



### Application

Coaxial cable for ship- and offshore environments. VHF/UHF equipment.  
Electrical specifications in compliance with MIL C-17/F

### Cable Design

|              |                                     |
|--------------|-------------------------------------|
| Conductor    | Stranded bare copper 7×0.75mm       |
| Dielectric   | Low density polyethylene            |
| Diameter     | Ø 7.25 ± 0.18 mm                    |
| Screen       | Aluminium/poleysther/aluminium tape |
| Braid        | Bare copper braid (coverage 96%)    |
| Outer Jacket | FR-LSZH SHF-1 < UV Resistant>       |
| Diameter     | 10,30 mm nom.                       |
| Weight       | kg/km                               |

## RG213/U LSZH SHF-1

### Environmental and Fire Characteristics

|                            |                          |
|----------------------------|--------------------------|
| Degree of acidity of gases | IEC 60754-1, IEC 60754-2 |
| Halogen acid gas           | IEC 60754-1, IEC 60754-2 |
| Smoke Emission             | IEC 61034-2, EN 50268-2  |
| Toxicity of evolved gas    | EN 50305 9.2             |
| Flame retardant            | IEC 60332-1-2            |
| Fire retardant             | IEC 60332-3-22 Cat.A     |
| UV resistant               | ASTM-D-2565-92A          |

### Performance

|                                   |            |        |
|-----------------------------------|------------|--------|
| Impedance                         | 50 ± 5     | Ohm    |
| Capacitance                       | 100 ± 9    | pF/m   |
| Velocity ratio                    | 66         | %      |
| Inner conductor resistance @ 500V | 6,0        | Ohm/km |
| Braid resistance @ 500V           | 4,20       | Ohm/km |
| Spark tension of the sheath       | 4          | kV     |
| Storage Temperature               | -20 to +60 | °C     |
| Installation Temperature          | 0 to +50   | °C     |
| Operating Temperature             | -30 to +70 | °C     |
| Min. Bend Radius Installation     | 10         | x Ø    |
| Min. Bend Radius Operating        | 5          | x Ø    |

## RG213/U LSZH SHF-1

### Attenuation

| MHz | 5   | 10  | 50  | 100 | 200 | 300  | 500  | 600  | 800  | 1000 | 1350 | 1500 | 1750 | 2150 | 2250 | 2500 | 2750 | 3000 |
|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| dB  | 1,4 | 1,9 | 3,9 | 5,6 | 8,3 | 10,3 | 13,7 | 15,3 | 17,9 | 20,3 | 24,7 | 26,1 | 29,8 | 33,6 | 34,7 | 37,1 | 39,5 | 41,7 |

### Return Loss (IEC61196-1-113)

| MHz | 30 - 300 | 300 - 600 | 600 - 1000 | 1000 - 2000 | 2000 - 3000 |
|-----|----------|-----------|------------|-------------|-------------|
| dB  | > 22     | > 22      | >22        | >19         | >18         |

### Other standards of reference

|                   |                                                                                                        |
|-------------------|--------------------------------------------------------------------------------------------------------|
| IEC 60092-370     | Electrical installations in ships: Guidance on the selection of cables for telecommunication and data. |
| DNV TAP 827.10/20 | Type Approval Program - coaxial cables                                                                 |
| MIL-C-17          | General specification for radio frequency coaxial cables                                               |
| IEC61196-1        | Coaxial communication cables                                                                           |
| EN 50290-2-23     | Insulation materials for telecommunication cables                                                      |

### Specification

| Part Number | Type                                                              |
|-------------|-------------------------------------------------------------------|
| AX213-UAZF1 | Armada® RG213/U Cable for the Marine environment. DNVGL Approved. |