

RG214/U LSZH  
MUD Resistant NEK606



## Application

Unarmoured RG214/U for ship- and offshore environments where MUD Resistance is required. For VHF/UHF equipment cable. In compliance with MIL C-17/F

## Cable Design

|              |                                               |
|--------------|-----------------------------------------------|
| Conductor    | Stranded silvered copper 7×0.75mm             |
| Dielectric   | Low density polyethylene                      |
| Diameter     | Ø 7.25 ± 0.18 mm                              |
| Screen       | Aluminium/polesther/aluminium tape            |
| Braid 1 °    | Silvered copper braid (coverage 94%)          |
| Braid 2 °    | Silvered copper braid (coverage 98%)          |
| Inner Jacket | FR-LSZH SHF-1 < UV Resistant> Ø 10,80 mm nom. |
| Outer Jacket | XL-HFFR MUD-Resistant < UV Resistant>         |
| Diameter     | Ø 11,80 mm nom.                               |
| Weight       | 231 kg/km                                     |

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## 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 60332-3-24 Cat.C     |
| UV resistant               | ASTM-D-2565-92A          |
| MUD Resistant              | NEK TS 606               |

## Performance

|                                   |            |        |
|-----------------------------------|------------|--------|
| Impedance                         | 50 ± 3     | Ohm    |
| Capacitance                       | 100 ± 9    | pF/m   |
| Velocity ratio                    | 66         | %      |
| Inner conductor resistance @ 500V | 6,0 ± 1,5  | Ohm/km |
| Braid resistance @ 500V           | 4,4 ± 0,4  | Ohm/km |
| Spark tension of the sheath       | 5,5        | 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    |

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## Attenuation

| MHz | 5   | 10  | 50  | 100 | 200 | 400  | 500  | 600  | 800  | 1000 | 1350 | 1500 | 1750 | 2150 | 2250 | 2500 | 2750 | 3000 |
|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| dB  | 1,1 | 1,5 | 3,8 | 5,5 | 8,0 | 11,6 | 13,2 | 14,5 | 17,0 | 19,6 | 23,6 | 24,7 | 27,2 | 30,7 | 31,5 | 33,9 | 36,1 | 37,8 |

## Return Loss

| 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                                                                            |
|-------------|---------------------------------------------------------------------------------|
| AX214-UAZFM | Armada® RG214/U Cable for the Marine environment. MUD-Resistant DNVGL Approved. |