



MOG 50 Ohm coaxial cable RG213U SHF MUD, unarmoured and armoured



Store at: -30 to +60 °C

Install at: -10 to +50 °C **Bend minimum** 5/10 times O.D.

Operate at: -40 to +90 °C, **Bend minimum** 10/15 times O.D.

Design

Conductor : stranded bare copper 7×0.75mm

Dielectric : low density polyethylene Ø 7.25 ± 0.18 mm

Screen 1 : aluminium/poleysther/aluminium tape (width 29mm)

Screen 2 : bare copper braid (coverage 96%)

Outer jacket : black Fire Retardant and UV Resistant cross-linked SHF MUD material, LSZH

Marking : APS Finland - ww/yy - RG213 MARINE SHF MUD NEK606 - 50 OHM - IEC60332-3-24 Cat C - DNV GL - lot + meter

Armoured version

Inner jacket : black Fire Retardant material, LSZH

Armour : galvanized steel, tinned copper or bronze wire braid

Outer jacket : black Fire Retardant and UV Resistant cross-linked SHF MUD material, LSZH

Marking : APS Finland - ww/yy - ARMoured RG213 MARINE SHF MUD NEK606 - 50 OHM - IEC60332-3-24 Cat C - DNV GL - lot + meter

Environmental properties and Fire Performances

Degree of acidity of gases : IEC 60754-1, IEC 60754-2 (pH value $\geq 4,3$ and Conductivity $\leq 10\mu\text{S}/\text{mm}$)

Halogen acid gas : IEC 60754-1, IEC 60754-2 (Halogen acid gas emission $\leq 0.5\%$)

Smoke Emission : IEC 61034-2, EN 50268-2 (Transmittance) $\geq 60\%$

Toxicity of evolved gas : EN50305 9.2

Flame retardant : IEC 60332-1-2

Fire retardant : IEC 60332-3-24 Cat.C

Ozone resistant : IEC60811-2-1, DIN VDE 0472 part 805 B

Weather resistant : ASTM G 154, EN 11507

LSZH SHF2 : IEC 60092-360

Oil resistant : IEC60811, IRM 903

MUD resistant : NEK606:2009, IEC60092-350

Water absorption : IEC60811-1-3

UV resistant : ASTM G 154 IEC 60068-2-5

Electrical characteristics (IEC60092-350, EN 50290-2-23, IEC61196-1-108)

Impedance : $50 \pm 5 \Omega$

Capacitance : $100 \pm 3 \text{ pF}/\text{m}$

Velocity ratio : 66%

Inner conductor resistance @ 500V : $36.5 \pm 1.5 \Omega/\text{km}$

Braid resistance @ 500V : $14 \pm 4 \Omega/\text{km}$

Spark tension of the sheath : 4.0kV

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

Ordering and delivery information

Type	P/N	O.D [mm]	Weight [kg/km]	Packaging
RG213U MUD Non-armoured	OC50R213UU	11.3	187.5	500m or 1000m (+/-5%)
RG213U MUD GSWB armoured	OC50R213AU	14.7	343.6	500m (+/-5%)
RG213U MUD TCWB-armoured	OC50R213TU	14.7	330.5	500m (+/-5%)
RG213U MUD BWB armoured	OC50R213BU	14.7	340.6	500m (+/-5%)

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
ABS SVR	Rules for building and classing. Steel Vessels.
ABS SMR	Rules for building and classing. Steel vessels under 90 meters.
MIL-C-17	General specification for radio frequency coaxial cables
IEC61196-1	Coaxial communication cables
EN 50290-2-23	Insulation materials for telecommunication cables

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