

RG214/U LSZH SHF-1



Application

Low smoke and halogen free RG214/U coaxial cable for ship and maritime environments for VHF/UHF equipment.

Cable Design

Conductor	Stranded silvered copper 7×0.75mm
Dielectric	Low density polyethylene
Diameter	Ø 7.25 ± 0.18 mm
Screen	Aluminium/poleyster/aluminium tape
Braid 1 °	Silvered copper braid (coverage 94%)
Braid 2 °	Silvered copper braid (coverage 98%)
Outer Jacket	FR-LSZH SHF-1 < UV Resistant>
Diameter	10,80 mm nom.
Weight	211,5 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

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-UAZF1	Armada® RG214/U Cable for the Marine environment. DNVGL Approved.