Armada®
Marine Cables

RG59B/U LSZH SHF-1

Application

Low smoke and halogen free RG59B/U coaxial cable for data transmission and video on and below deck of commercial ships and maritime environments.

Cable Design

Conductor	Copperweld Ø 0.58 ± 0.025 mm
Dielectric	Low density polyethylene
Diameter	Ø 3.70 ± 0.15 mm
Screen	Aluminium/poleysther/aluminium tape
Braid	Bare copper braid (coverage 93%)
Outer Jacket	FR-LSZH SHF-1 < UV Resistant>
Diameter	Ø 6,20 mm nom.
Weight	57,2 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 60332-3-22 Cat.A
UV resistant	ASTM-D-2565-92A

Performance

Impedance	75±3	Ohm
Capacitance	67±3	pF/m
Velocity ratio	66	%
Inner conductor resistance @ 500V	154±5	Ohm/km
Braid resistance @ 500V	9±3	Ohm/km
Spark tension of the sheath	4,5	kV
Storage Temperature	-20 to +60	°C
Installation Temperature	0 to +50	°C
Operating Temperature	-30 to +70	°C
Min. Bend Radius Installation	10/20	x Ø
Min. Bend Radius Operating	5/15	x Ø

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Attenuation

MHz	5	10	50	100	200	300	500	600	800	1000	1350	1500	1750	2150	2250	2500	2750	3000
dB	2,7	3,4	7,3	10,7	15,0	18,6	24,8	27,0	31,5	35,6	41,7	44,8	49,2	55,6	59,7	63,0	67,7	67,7

Return Loss (IEC61196-1-113)

MHz	30 - 300	300 - 600	600 - 1000	1000 - 2000	2000 - 3000
dB	> 28	> 23	>18	>14	>14

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
AX059-UAZF1	Armada® RG59B/U Cable for the Marine environment. DNVGL Approved.

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