

Armoured RG58C/U LSZH SHF1



Application

Armoured RG58C/U Coaxial cable for ship- and offshore applications. Electrical data in compliance with MIL-C-17/F.

Cable Design

Conductor	Stranded tinned copper 19×0.18mm
Dielectric	Low density polyethylene, Ø 2.95 ± 0.10 mm
Screen	Aluminium/poleysther/aluminium tape
Braid	Tinned copper braid (coverage 93%)
Inner Jacket	FR-LSZH SHF-1 < UV Resistant> Ø 5,0 mm nom.
Armour	DataGuard [®] Galvanised Steel Wire Braid (GSWB)
Outer Jacket	FR-LSZH SHF-1 < UV Resistant>
Diameter	Ø 10,0 mm nom.
Weight	115 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	NES 713, CEI 20-37/7
Flame retardant	IEC 60332-1-2
Fire retardant	IEC 60332-3-22 Cat.A
UV resistant	ASTM-D-2565-92A

Performance

Impedance	50 ± 3	Ohm
Capacitance	100 ± 9	pF/m
Velocity ratio	66	%
Inner conductor resistance @ 500V	36,5	Ohm/km
Braid resistance @ 500V	14	Ohm/km
Spark tension of the sheath	5,5	kV
Storage Temperature	-40 to +70	°C
Installation Temperature	-10 to +50	°C
Operating Temperature	-30 to +70	°C
Min. Bend Radius Installation	15	x Ø
Min. Bend Radius Operating	10	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	3,3	4,3	9,9	13,5	19,2	24,0	31,9	35,5	41,6	47,5	57,1	60,8	67,1	77,0	78,8	85,7	88,9	90,7

Return Loss (IEC61196-1-113)

MHz	30 ÷ 300	300 ÷ 600	600 ÷ 1000	1000 ÷ 2000	2000 ÷ 3000
dB	> 28	> 23	>20	>15	>15

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
AX058-WBZF1	Armada® Armoured RG58C/U Cable for the Marine environment. SHF1 DNVGL Approved.