

RF400 SHF1
50 Ohm Coaxial Cable



Application

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Cable Design

Conductor	Copper Clad Aluminium nom. 2,75 mm
Dielectric	Foam PE nom. 7,24 mm
Outer Conductor	Bonded aluminium foil nom. 7,39 mm
Braid	Tinned Copper Braid nom. 8,13 mm
Outer Jacket	FR-LSZH SHF-1 < UV Resistant>
Diameter	Ø 10,29 ± 0,5 mm

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Environmental and Fire Characteristics

Degree of acidity of gases	IEC 60754-1/2
Halogen acid gas	IEC 60754-1/2
Smoke Emission	IEC 61034-1/2
Flame retardant	IEC 60332-1-2
Fire retardant	IEC 60332-3-22 Cat.A
UV resistant	UL 1581

Performance

Impedance	50 ± 3	Ohm
Capacitance	78	pF/m (nominal)
Velocity ratio	85	%
Insulation resistance	> 5000	MOhm.km
Inner conductor resistance	4,69	Ohm/km
Outer conductor resistance	5,61	Ohm/km
Storage Temperature	-20 to +60	°C
Installation Temperature	0 to +50	°C
Operating Temperature	-40 to +70	°C
Min. Bend Radius Installation	51	mm
Min. Bend Radius Operating	51	mm

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Attenuation

Frequency	MHz	30	50	150	220	450	900	1500	1800	2000	2500	3000	5800
Typical	dB100ft	0,81	0,9	1,61	1,90	2,77	3,98	5,29	5,74	6,12	6,75	7,60	11,29
Max.	dB100ft	0,84	1,07	1,70	2,10	3,00	4,30	5,60	6,30	6,60	7,40	8,40	12,0

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
RF400 SHF1	50 Ohm Coaxial Cable for LMR (Land Mobile Radio) communications in marine and offshore environments.