



RF 400 Ultra Flex SHF1

Low loss feeder cable

Double shielded

50Ω

SHF1, UV

DNV

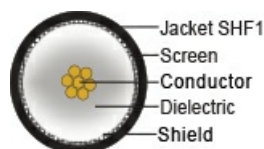
Application

Ultra flexible RF-cable for antenna feeder or jumper assemblies. Connects RF receiver systems with antenna systems in ships, buildings, tunnels and other underground installations. This product has better bending and handling properties, compared with cables with corrugated sheaths. Equal to LMR 400 and Ecoflex 10.



Construction

Conductor	Flexible bare Cu 7 x 0.95 [mm]
Dielectricum	Gas injected PE 7.25 ± 0.18 [mm]
Screen	Cu- + polyester tape 100 [%optical cover]
Screen 2	Bare Cu-braid 73 [% optical coverage] 112 x 0.16 [mm]
Jacket	Black SHF1
O.D.	10.30 ± 0.18 [mm]
Weight	142 [kg/km]



Specifications Coax

Temperature range	-40 – 80 [°C]
DC-resistance screen	7.4 [Ω/km]
Voltage rating	5.5 [kV]
Impedance	50 ± 3 [Ω]
Capacitance	80 [pF/m]
Velocity factor	84 [%]
Min bending radius installed	5 [x outer diam.]
Min. bending flexible	10 [x outer diam.]



Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & IEC 60754-2
Material properties, insulation and sheath	IEC 60092-359
Flame resistance	IEC 60332-3-22 Cat.A
Flame retardant	IEC 60332-1-2
Ozone resistant	IEC 60811-3-1
Smoke emission	IEC 61034-2
UV-resistant	UL 1581, ISO 4892
Certification	DNV



Prod.no.	1092357
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Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	1.1
10	1.4
30	2.2
50	3.0
150	5.0
220	6.1
450	9.0
600	10.7
800	12.4
900	13.2
1000	14.1
1500	17.4
1800	19.3
2000	20.5
2500	23.3
3000	25.8
5200	35.5
5800	37.7



Structural return loss

MHz	dB
30 – 450	> 25
450 – 1000	> 24
1000 – 2000	> 21
2000 – 3000	> 20
3000 – 4000	> 19
4000 – 5800	> 18

Screen effectiveness IEC 61196-1

MHz	dB
100 – 900	> 80
900 – 2000	> 70
2000 – 3000	> 60