

# RF 400 SHF1

Low loss feeder cable  
 50Ω, double shielded  
 SHF1, UV, LSZH  
 Eq. LMR 400  
 DNV-GL



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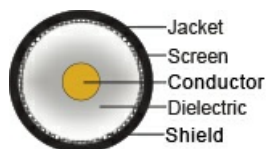
## Application

Replaces RG-8/9913 as short run 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.



## Construction

Conductor	Solid Copper-clad Al 2.74 [mm]
Dielectricum	Cellular PE 7.25 ± 0.18 [mm]
Screen	Al - PET - AL Tape
Screen	Tinned Cu-braid 90 [% optical coverage]
Jacket	Black SHF1
O.D.	10.3 ± 0.18 [mm]
Weight	124 ± 0.5 [kg/km]



## Specifications

Operating temperature normal	-40 – +70 [°C]
Test Voltage	6 [kV AC]
Characteristic impedance	50 ± 3 [Ω]
Braid Resistance	5 [Ω/km]
Conductor resistance	4.7 [Ω/km]
Insulation resistance	5 [GΩ x km]
Frequency	Max 3000 MHz
Capacitance	80 [pF/m]
Velocity factor	0,84
Min. bending radius	5 [x outer diam]
Min. bending radius flexible	10 [x outer diam]

## Norms

Flame retardant	IEC 60332-1
Flame resistance	IEC 60332-3-22 Cat.A
Halogenfree, max content corrosive and toxic gases	IEC 60754-1 and IEC 60754-2
Material properties, insulation and sheath	IEC 60092-360 (359)
Design and testing standards	IEC 60096-0-1 Ed 3 IEC 61196-1-100
Smoke emission	IEC 61034-2
UV-resistant	ASTM G 154



Part No.	1092361
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## Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	0,9
10	1,2
50	2,5
100	3,6
200	5,3
400	7,9
500	9,0
600	10,0
800	11,7
1000	13,2
1350	15,8
1500	16,6
1750	18,7
2150	20,6
2250	21,2
2500	22,6
2750	23,8
3000	25,1
6000	38,7



## Structural return loss

MHz	dB
30 – 300	< 29
300 – 600	< 26
600 – 1000	< 24
1000 – 2000	< 19
2000 – 3000	< 18

## Screen effectiveness IEC 61196-1

MHz	dB
100 – 900	>95
900 – 2000	>85
2000 – 3000	>75

## Updated

Date	Rev.	Description
27.02.2018	2	Norms and attenuation
22.11.2017	1	Design and electrical data