RF 400 Ultra Flex

Flexible coaxial cable
Low Loss, double screen
50 Ω, SHF1, LSZH, UV
Eq. to LMR 400

FS cables
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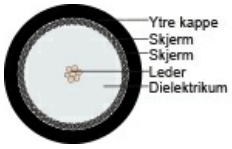
Application

Double shielded coaxial cable designed for use in the broadcasting and telecommunication industry. Double shield means a 90 dB compared with typically 40 dB for a single shielded cable. Replaces RG 8. A variety of connectors is available for this product. Also used as jumper cable in communication networks for LF and UHF.

Construction

Conductor	Stranded Plain Cu 7x1,00 [mm]
Dielectricum	Gas injected PE 7,25 ± 0,18 [mm]
Screen	Al - PET - AL Tape
Screen	100 [% coverage]
Screen 2	Tinned Cu braid 90 [% optical coverage]
Jacket	Black LSZH SHF1
Outer diam	10,30 ± 0,18 [mm]
Weight	154,20 [kg/km]



Specifications

Operating temperature	-40 – +70 [°C]
Characteristic impedance	50 ± 3 [Ω]
Braid Resistance	5 [Ω/km]
Conductor resistance	3.0 [Ω/km]
Capacitance	80 [pF/m]
Velocity factor	0.84
Min. bending radius	5 [x outer diam]
Min. bending radius flexible	10 [x outer diam]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1, -2
Design and testing standards	IEC 60096-0-1 Ed 3 IEC 61196-1-100
Sheathing material	IEC 60092-360 (359)
Flame retardant	IEC 60332-1-2
Fire retardant	IEC 60332-3-24 Cat.C
Smoke emission	IEC 61034-2
UV-resistant	ASTM G 154
Certification	DNV-GL

CE RoHS

Part No.	1028860

Attenuation nominal, max 105%

Frequency MHz	Attenuation dB/100m
5	1,0
10	1,3
50	2,6
100	3,7
200	5,4
400	8,1
500	9,2
600	10,3
800	12,0
1000	13,5
1350	16,1
1500	17,0
1750	19,1
2150	21,0
2250	21,6
2500	23,1
2750	24,3
3000	25,6
6000	38,7

Structural return loss

MHz	dB
30 - 300	>27
300 - 600	>26
600 - 1000	>22
1000 - 2000	>18
2000 - 3000	>15

Screen effectiveness IEC 61196-1

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

Updated

Date	Rev.	Description
27.02.2018	1	Construction, specs and attenuation