RF LLF 1/2" Hiflex MUD

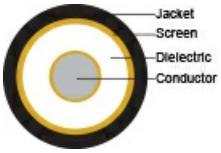
Feeder Cable
Jumper Cable
50Ω
SHF2, MUD
DNV

Application

Low loss highly flexible feeder cable designed for broadband transmission from sources like radio antennas, radars, GPS devices, mobile phone antennas to distribution systems inside ships, tunnels, buildings and underground areas wher RF signals normally cannot be received. The highly flexible design makes the product the best solution for installations which requires small bending radius. RF LLF 1/2" Hiflex MUD is the best choice, used as jumper cable in areas exposed to chemicals. The combination of extra flexibility and low loss makes RF LLF 1/2" Hiflex the natural choice for most applications in RF networks.

Construction

Conductor	Copper coated Al wire 3.55 ± 0.04 [mm]
Dielectricum	Cellular PE 9.0 ± 0.25 [mm]
Screen	Helical corrugated Cu-tape
Jacket	Black SHF2 Halogenfree and MUD resistant thermoset compound
O.D.	13.7 ± 0,2 [mm]
Weight	210 [kg/km]
Jacket marking	NEK Kabel – RF LLF 1/2" Hiflex – MUD – DNV – DD/MM/YY – <batch no.> – ****m



Specifications

Operating temperature normal	-40 – +70 [°C]
Temperature @ installation	-20 – +50 [°C]
Recommended clamp spacing	1 [m]
Peak RF voltage	1.4 [kV]
Characteristic impedance	50 ± 2 Ω
Peak power rating	19 [kW]
Braid Resistance	3.7 [Ω/km]
Return Loss	23 [dB]
Conductor resistance	3 [Ω/km]
Max. load at installation	800 [N/mm²]
Insulation resistance	10 [GΩ x km]
Capacitance	82 [pF/m]
Min. bending radius	17 [mm]
Min. bending radius flexible	50 [mm]

Norms

Halogenfree, max content corrosive and toxic gases	IEC 60754-1 & 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
Flame resistance	IEC 60332-3-22 Cat.A IEC 60332-3-24 Cat.C
Flame retardant	IEC 60332-1-2
Weather resistant	ASTM G 154
Smoke emission	IEC 61034-1 & IEC 61034-2
MUD resistant	NEK TS 606
UV-resistant	ASTM G 154
Certification	DNV

Part No.	1092482

RoHS

NEK offers connectors for RF LLF 1/2": Male, Part No. 65435 and Female, Part No. 65438

Attenuation and Power rating

Frequency [MHz]	Nom. att. [dB/100m] max. 105%	Power rating [kW]
30	1.7	4.8
100	3.18	2.6
150	4.08	2.1
400	6.60	1.2
450	7.20	1.2
500	7.32	1.1
600	8.10	0.99
700	8.75	0.91
800	9.50	0.85
900	11.00	0.77
960	10.55	0.77
1000	10.80	0.75
1200	11.90	0.68
1400	13.0	0.62
1600	14.0	0.58
1800	15.5	0.54
2000	16.5	0.51
2200	17.5	0.48
2400	18.3	0.46
2700	19.6	0.44
3000	21.0	0.40
3400	22.5	0.37
4000	24.0	0.34
5800	33.0	0.27

Updated

Date	Rev.	Description
22.02.2017	1	Weight and Dimension
27.11.2017	2	Update norms