



RF LLF 1/2" MUD

Feeder cable

50 Ω

SHF2 MUD, UV

DNV

Application

Low loss 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 where RF signals normally cannot be received. Chemical resistant, SHF2 MUD jacket.



Construction

Conductor	Copper coated Al wire 4.8 ± 0.2 [mm]
Dielectricum	Cellular PE 12.0 ± 0.5 [mm]
Screen	Corrugated Cu tube 13.9 ± 0.5 [mm]
Jacket	SHF2, MUD Black UV-resistant
O.D.	16.0 ± 0.5 [mm]
Weight	265 [kg/km]
Jacket marking	NEK Kabel – RF LLF 1/2" – MUD – DNV – DD/MM/YY – <batch no.> – ****m



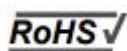
Specifications

Operating temperature normal	-40 – +70 [°C]
Inductance	0.19 [μH/m]
Screen resistance	< 2.4 [Ω/km]
Peak RF voltage	1.8 [kV]
Characteristic impedance	50 ± 2 Ω
Peak power rating	32 [kW]
Conductor resistance	< 1.6 [Ω/km]
Insulation resistance	5000 [MΩ x km]
Tensile strength	1130 [N]
Capacitance	76 [pF/m]
Velocity factor	0,88
Min. bending radius	85 [mm]
Min. bending radius flexible	135 [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
Weather resistant	ASTM G 154
Smoke emission	IEC 61034-1 & IEC 61034-2
Oil and fuel resistant	Mineral Oils, IRM 902: 23°C / 7 days, 70°C / 4h Diesel, IRM 903: 23°C / 7 days, 70°C / 4h
MUD resistant	NEK TS 606
UV-resistant	ASTM D 4587
Certification	DNV



NEK offers connectors for RF LLF 1/2": Male, Part No. 65402 and Female, Part No. 65464

Part No.	1092481
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Attenuation

Frequency [MHz]	Attenuation [dB/100m ±5%]	Coupling loss 95% [dB±10]
150	3.40	78
450	6.00	80
700	6.48	80
900	9.50	82
1800	13.75	88
2200	15.40	85
2400	16.00	87



VSWR

Frequency [MHz]	-
260 – 480	≤ 1.30
820 – 960	≤ 1.30
1700 – 1860	≤ 1.30
2100 – 2200	≤ 1.30
2300 – 2500	≤ 1.30
2500 – 2700	≤ 1.30
3400 – 3600	≤ 1.35

Updated

Date	Rev.	Description
27.11.2017	1	Update norms
19.04.2022	2	MUD
24.04.2025	3	Attenuation
12.12.2025	4	Additional info