# RF LLF 7/8" Hiflex

**Feeder cable**
**Jumper cable**
**50Ω**
**SHF1, UV**
**DNV-GL**

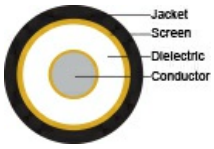
FS cables
sales@fscables.com

## 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. The combination of extra flexibility and low loss makes this product the natural choice for most applications in RF networks. Attenuation values, nominal (max. 105%)

## Construction

| | |
|---|---|
| Conductor | Helical Corrugated copper tube 9.40 ± 0.20 [mm] |
| Dielectricum | Cellular PE 22.20 ± 0.30 [mm] |
| Screen | Corrugated Cu tube 24.90 ± 0.30 |
| Jacket | Black SHF1 |
| Outer diam | 27.50 ± 0.20 [mm] |
| Weight | 430 [kg/km] |
| Jacket marking | NEK Kabel RF LLF 7/8" Hiflex |




## Specifications

| | |
|---|---|
| Operating temperature | -40 to +70 [°C] |
| Temperature flexible | -20 [°C] |
| Screen resistance | 1,3 [Ω/km] |
| Recommended clamp spacing | 1 [m] |
| Peak RF voltage | 2,8 [kV] |
| Characteristic impedance | 50 ± 2 Ω |
| Conductor resistance | 2.5 [Ω/km] |
| Capacitance | 74 [pF/m] |
| Velocity factor | 0,88 |
| Min. bending radius | 90 [mm] |
| Min. bending radius flexible | 120 [mm] |

RoHS ✓

| | |
|---|---|
| Part No. | 1028855 |

## 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) SHF1 |
| Fire retardant | IEC 60332-3-22 Cat.A |
| Smoke emission | IEC 61034 |
| UV-resistant | ASTM G 154 |
| Certification | DNV-GL |

## Attenuation and Power rating

| Frequency [MHz] | Nominal attenuation [dB/100m] max. 105% | Power rating [kW] |
|---|---|---|
| 10 | <0,37 | 24 |
| 30 | <0,63 | 14 |
| 50 | <0,86 | 11 |
| 174 | <1,64 | 5,6 |
| 200 | <1,8 | 5,2 |
| 500 | <2,89 | 3,2 |
| 800 | <3,72 | 2,5 |
| 900 | <4.00 | 2,3 |
| 960 | <4,11 | 2,2 |
| 1600 | <5,47 | 1,7 |
| 1800 | <6,00 | 1,6 |
| 2000 | <6,38 | 1,5 |
| 2200 | <6,56 | 1,4 |
| 2400 | <7,10 | 1,3 |
| 2600 | <7,23 | 1,3 |
| 2800 | <7,55 | 1,2 |
| 3000 | <7,87 | 1,2 |
| 3400 | <8,48 | 1,1 |
| 4000 | <9,32 | 0,98 |
| 5000 | <10,95 | 0,86 |

| Date | Rev. | Description |
|---|---|---|
| 18.04.16 | 1 | |
| 27.11.2017 | 2 | Update norms |