# RF-LLX-CL 7/8" SHF2

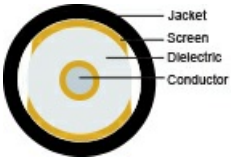
## Coupling Leaky Cable
## 50Ω
## SHF2, UV
## DNV

## Application

Radiating coaxial cable for tunnels, ships, buildings and other closed areas. Outer sheath SHF2

## Construction

| | |
|---|---|
| Conductor | Cu-tube Ø = 9.0 ± 0.1 [mm] |
| Dielectricum | Cellular PE Ø = 22.0 ± 0.5 [mm] |
| Screen | Slotted corrugated copper tube Ø = 24.9 ± 0.3 [mm] |
| Jacket | Black SHF2 UV-resistant |
| O.D. | 27.5 ± 0.5 [mm] |
| Weight | 460 [kg/km] |
| Jacket marking | NEK Kabel – RF-LLX-CL 1/2" – SHF2 – DNV – DD/MM/YYYY – <batch no.> – ****m |




## Specifications

| | |
|---|---|
| Operating temperature normal | -20 – +70 [°C] |
| Temperature @ installation | -20 – +50 [°C] |
| Characteristic impedance | 50 ± 2 [Ω] |
| Insulation resistance | 10000 [MΩ x km] |
| Tensile strength | 1500 [N] |
| Velocity factor | 88 [%] |
| Min. bending radius | 140 [mm] |
| Min. bending radius flexible | 250 [mm] (max 15 times) |

## 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 60332-3-24 Cat.C |
| Flame retardant | IEC 60332-1-2 |
| Weather resistant | ASTM G 154 |
| Smoke emission | IEC 61034-2 |
| UV-resistant | ASTM G 154 |
| Certification | DNV |

| | |
|---|---|
| Prod.no | 3031015 |

## Attenuation

| Frequency [MHz] | Attenuation [dB/100m ±5%] | Coupling loss 95% [dB±10] |
|---|---|---|
| 150 | ≤ 1.8 | 78 |
| 450 | ≤ 3.6 | 86 |
| 800 | ≤ 4.6 | 86 |
| 900 | ≤ 4.9 | 85 |
| 1800 | ≤ 7.6 | 85 |
| 2000 | ≤ 8.0 | 83 |
| 2200 | ≤ 8.6 | 83 |
| 2400 | ≤ 9.0 | 84 |
| 2600 | ≤ 9.4 | 82 |
| 3000 | ≤ 10.3 | 82 |
| 3500 | ≤ 11.4 | 83 |

## VSWR

| Frequency [MHz] | - |
|---|---|
| 260 – 480 | ≤ 1.25 |
| 820 – 960 | ≤ 1.25 |
| 1700 – 1860 | ≤ 1.25 |
| 1900 – 2050 | ≤ 1.30 |
| 2100 – 2200 | ≤ 1.30 |
| 2300 – 2500 | ≤ 1.30 |
| 2500 – 2700 | ≤ 1.30 |
| 3400 – 3550 | ≤ 1.30 |

## Updated

| Date | Rev. | Description |
|---|---|---|
| 19.11.2024 | 1 | Attenuation and VSWR |
| 23.04.2025 | 2 | Attenuation |
| 03.03.2026 | 3 | construction and attenuation |