## - Information

Prod.

NK 7/8" Feeder

Prod No.

FC-Feeder-cable-NK-7/8

Application and Properties:

NK 7/8" feeder cable is a coaxial cable and its impedance is 50 ohms and also Its outer conductor made from corrugated copper and also its inner conductor is a copper tube. NK Cables' feeder cables have been designed to meet the highest quality and environmental standards. the feeder cables are produced in Oulu Finland, China and Brazil. the feeder cable mainly used for the connection of transmitter, receiver and antenna.

## - Other Details

- High quality and excellent performances
- Low attenuation
- Complete Shielding for minimizing system interference

## - Technical Specification

| Technical Specifications | | | | | | | |
|---|---|---|---|---|---|---|---|
| Construction Specifications | | | | | | | |
| Inner conductor | Copper tube | | | | | | |
| Dielectric | Cellular Polyethylene | | | | | | |
| Outer Conductor | Corrugated Copper tube | | | | | | |
| Sheath | Type | Jacket | IEC 60754 - 1/-2 halogen free, non corrosive | IEC 61034 low smoke emission | IEC 60332-3 C fire retardant | UV retardancy | Min. installation temperature |
| | RFS 7/8" -50 | Black HD polyethylene | Yes | No | No | Yes | 40°C - |
| | RF 7/8" -50 GHF | Grey, halogen free fire retardant thermoplastic | Yes | Yes | Yes | No | 5°C - |
| | RF 7/8" -50 BHF | Black, halogen free fire retardant thermoplastic | Yes | Yes | Yes | Yes | 5°C - |
| Physical Dimensions | | | | | | | |
| Inner conductor diameter | 9.0mm | | | | | | |
| Dielectric diameter | 22.2 mm | | | | | | |
| Outer Conductor diameter | 24.9 mm | | | | | | |
| Sheath Diameter | mm 27.5 | | | | | | |

| Electrical Specifications | |
|---|---|
| Capacitance | 76 pF/m |
| Impedance | 50±1 ohms |
| Inductance | µH/m 0.185<br>(µH/ft 0.056) |
| Velocity factor | 0.88 |
| Cut-off frequency | MHz 5300 |
| Maximum operating frequency | MHz 3000 |
| Peak RF voltage rating | 3.2 KV |
| Peak power rating | 89 KW |
| DC-resistance inner conductor | Ω/km 1.04 |
| DC-resistance outer conductor | Ω/km 0.97 |
| **Mechanical & Environmental Specifications** | |
| Weight | kg/km 550 |
| Maximum pulling force | N 1800 |
| Minimum bending radius, single bending | mm 120 |
| Minimum bending radius, repeated bending | mm 250 |
| Operating temperature range | -40 to+70 °C |

**Attenuation & Average Power**

| Frequency MHz | Attenuation ambient temperature +20°C dB/100m typical | Attenuation ambient temperature +20°C dB/100m max | Power rating ambient +40°C inner conductor +100°C kW |
|---|---|---|---|
| 10 | 0.362 | 0.367 | 26 |
| 30 | 0.632 | 0.642 | 15 |
| 50 | 0.821 | 0.835 | 12 |
| 100 | 1.18 | 1.20 | 8.0 |
| 200 | 1.69 | 1.72 | 5.6 |
| 300 | 2.09 | 2.14 | 4.5 |
| 400 | 2.44 | 2.50 | 3.8 |
| 450 | 2.60 | 2.66 | 3.6 |
| 500 | 2.75 | 2.82 | 3.4 |
| 600 | 3.04 | 3.12 | 3.1 |
| 700 | 3.31 | 3.39 | 2.8 |
| 800 | 3.56 | 3.65 | 2.6 |
| 850 | 3.68 | 3.78 | 2.5 |
| 900 | 3.80 | 3.90 | 2.5 |
| 950 | 3.91 | 4.02 | 2.4 |
| 1000 | 4.03 | 4.14 | 2.3 |
| 1200 | 4.46 | 4.59 | 2.1 |
| 1400 | 4.86 | 5.01 | 1.9 |
| 1600 | 5.25 | 5.41 | 1.8 |
| 1800 | 5.61 | 5.79 | 1.7 |
| 1900 | 5.79 | 5.98 | 1.6 |
| 2000 | 5.96 | 6.16 | 1.6 |
| 2200 | 6.30 | 6.52 | 1.5 |
| 2400 | 6.62 | 6.86 | 1.4 |
| 2600 | 6.94 | 7.19 | 1.3 |
| 2800 | 7.25 | 7.52 | 1.3 |
| 3000 | 7.55 | 7.84 | 1.2 |