



## LadonX™ 50Ω 1-5/8" Coaxial Feeder Cable

### Flame Resistant

IEC61034-1/-2

IEC60754-1/-2

IEC60332-1-2

### Design Reference

ROHS

### Application

Transmission of signal data.

### Working Conditions

Storage Temperature

-30°C ~ +80°C

Installation Temperature:

-25°C ~ +60°C

Operation Temperature

-30°C ~ +80°C

### Min. single bending radius

300mm

### Min. repeated bending radius

510mm



*THE HIGH-PERFORMANCE OF ATTENUATION ALLOWS COAXIAL CABLE TO BE USED IN DIFFERENT RF SYSTEMS, SUCH AS 3G, 4G MOBILE COMMUNICATION.*

*WIDE RANGE OF APPLICATIONS, SUCH AS INDOOR DISTRIBUTION, BROADCAST, VARIOUS BASE STATIONS, WIRELESS CELLULAR, AND OTHERS.*

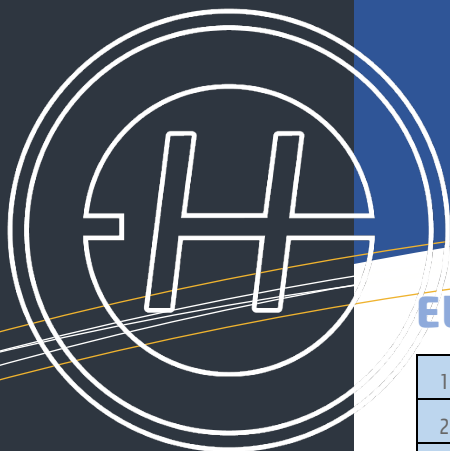
*LOWER VSWR, PERFECT SHIELDING EFFECTIVENESS, AND EXTRAORDINARY INTER-MODULATION PERFORMANCE LEAD TO FEWER ENERGY LOSS AND OUTER INTERFERENCE.*

## Technical data

|                                 |    |                           |
|---------------------------------|----|---------------------------|
| Nominal Impedance               | Ω  | 50                        |
| Inner Conductor Material        |    | Helical corrugated copper |
| Inner Conductor Diameter (Nom.) | mm | 17.3                      |
| Insulation Material             |    | Physically foamed PE      |
| Insulation Diameter (Nom.)      | mm | 43.5                      |
| Outer Conductor                 |    | Ring corrugated copper    |
| Outer Conductor Diameter (Nom.) | mm | 46.5                      |
| Outer Sheath                    |    | Flame retardant PE        |
| Outer Sheath Colour             |    | Black                     |
| Overall Diameter (Nom.)         | mm | 49.5                      |

## Mechanical Property

| No. | Mechanical Specification          | Unit | Designed Value |
|-----|-----------------------------------|------|----------------|
| 1   | Max. tensile force                | N    | 3630           |
| 2   | Recommended maximum clamp spacing | M    | 1              |



## Electrical Property

|   |                       |                |            |
|---|-----------------------|----------------|------------|
| 1 | Nominal Impedance     | $\Omega$       | 50 $\pm$ 1 |
| 2 | Nominal capacitance   | pF/m           | 76         |
| 3 | Nominal inductance    | $\mu$ H/m      | 0.19       |
| 4 | Propagation velocity  | %              | 88         |
| 5 | DC breakdown voltage  | kV             | 8.0        |
| 6 | Insulation resistance | M $\Omega$ •km | >5000      |
| 7 | Cut-off frequency     | GHz            | 2.75       |
| 8 | Peak power rating     | kW             | 315        |

## Transmission Property

Attenuation values may be with a tolerance of 5%.

| Frequency MHz                           | 30             | 100            | 450            | 690            | 800            | 900            | 1000           | 1800           | 2000           | 2200           | 2400           | 2500           |
|-----------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Attenuation @20°C,<br>dB/100m(dB/100ft) | 0.36(<br>0.11) | 0.67(<br>0.20) | 1.53(<br>0.47) | 1.95(<br>0.59) | 2.13(<br>0.65) | 2.29(<br>0.70) | 2.43(<br>0.74) | 3.47(<br>1.06) | 3.71(<br>1.13) | 3.94(<br>1.20) | 4.16(<br>1.27) | 4.27(<br>1.30) |
| Power @40°C, kW                         | 32.30          | 16.40          | 7.17           | 5.95           | 5.15           | 4.80           | 4.53           | 3.17           | 2.95           | 2.81           | 2.66           | 2.59           |

## Sheath Marking

The outer sheath is marked in 1meter intervals as follows

HERMESYS LADONX 50 $\Omega$  1-5/8" COAXIAL FEEDER CABLE WW YYYY XXXXM

## Shipping Information

Packing Method

Wooden Drum with proper protection

Delivery Length

2/4 km per drum

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