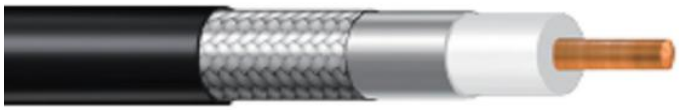
# PRODUCT SPECIFICATION

## LMR 100-600 Series

# KL-400

## Data sheet



## Structure specification

| description | material | inches | mm |
|---|---|---|---|
| Inner conductor | Solid BC or CCA | 0.108 | 2.74 |
| dielectric | Foam PE | 0.285 | 7.24 |
| Outer conductor | Aluminum tape | 0.291 | 7.39 |
| Overall braid | Tinned CU or tinned CCA or as per request | 0.32 | 8.13 |
| Jacket | PVC or PE | 0.405 | 10.29 |

## Mechanical performance

| Performance property | units | US | metric |
|---|---|---|---|
| Bend radius | In.(mm) | 4 | 101.6 |
| Tensile strength | Lb(kg) | 160 | 72.6 |

## Environmental specifications

| Performance property | 0F | oC |
|---|---|---|
| Installation temperature range | -40/+185 | -40/+85 |
| Storage temperature range | -94/+185 | -70/+85 |
| Operating temperature range | -40/+185 | -40/+85 |

## Electrical performance

| Performance property | units | US | (metric) |
|---|---|---|---|
| Velocity of propagation | % | 85 | |
| impedance | ohms | 50 | |
| capacitance | pF/ft(pF/m) | 23.9 | 78.4 |
| Inner conductor resistance | Ohms/1000ft(/km) | 1.39 | 4.6 |
| Outer conductor resistance | Ohms/1000ft(/km) | 1.65 | 5.4 |
| Voltage withstand | Volts DC | | 2500 |

| Frequency (MHz) | 30 | 50 | 150 | 220 | 450 | 900 | 1500 | 1800 | 2000 |
|---|---|---|---|---|---|---|---|---|---|
| Attenuation dB/100ft | 0.7 | 0.9 | 1.5 | 1.9 | 2.7 | 3.9 | 5.1 | 5.7 | 6.0 |
| Attenuation dB/100m | 2.2 | 2.9 | 5.0 | 6.1 | 8.9 | 12.8 | 16.8 | 18.6 | 19.6 |