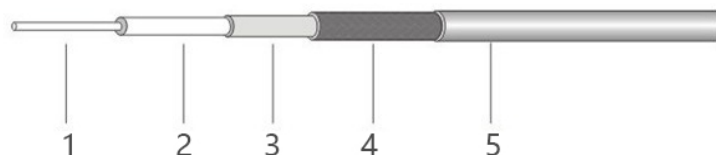


## Datasheet\_LMR-400(KMR-400)



LMR-400(KMR-400) is a flexible low loss, braided coaxial cable offers similar performance compared to corrugated coaxial cable, but with higher flexibility and simplified connectorization.

Drop-in replacment for RG8 cable.

It can be used in almost any application where handling characteristics, improved shielding and low loss is required. It is ideal for:

- # Jumper assemblies in wireless communication systems.
- # Short antenna feeder runs.
- # WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile antennas.

| Item No.                | Series No. |
|-------------------------|------------|
| <b>LMR-400(KMR-400)</b> | <b>S09</b> |

### Mechanical Construction

| Property        | Material  | Diameter(mm) |
|-----------------|---|--------------|
| Inner conductor | Copper-clad aluminum wire   | φ 2.74       |
| Dielectric      | Foam PE   | φ 7.24       |
| Outer conductor | Aluminum foil tape + Tinned copper braided (AF/TC)<br>168*0.15, coverage ≥90% | φ 8.13       |
| Jacket          | Black PE  | φ 10.29      |

### Electrical Properties

| Property               | Value       |
|------------------------|-------------|
| Minimum bending radius | 51.5 mm     |
| Operating temperature  | -40 ~ +80°C |
| RoHs                   | Compliant   |

## Electrical Properties

| Property                       | Value        |
|--------------------------------|--------------|
| Impedance                      | 50 $\Omega$  |
| Operating frequency            | DC-6GHz      |
| Cut-off frequency              | 16.2GHz      |
| Rated capacitance              | 77.8 pf/m    |
| Velocity                       | 85.70%       |
| Peak Power                     | 16 KW        |
| Shielding Effectiveness        | 90 dB        |
| DC Resistance, Inner Conductor | 4.91 ohms/km |
| DC Resistance, Outer Conductor | 5.41 ohms/km |
| DC Voltage withstand           | 2500 V       |
| Jacket Spark                   | 8000 Vrms    |

## Attenuation

| Frequency(MHz) | Attenuation(20°C, dB/100m) | Average Power (KW) |
|----------------|----------------------------|--------------------|
| 30             | 2.20                       | 2.91               |
| 50             | 2.90                       | 2.21               |
| 150            | 5.00                       | 1.28               |
| 220            | 6.10                       | 1.05               |
| 450            | 8.90                       | 0.72               |
| 900            | 12.80                      | 0.50               |
| 1500           | 16.80                      | 0.38               |
| 1800           | 18.60                      | 0.34               |
| 2000           | 19.60                      | 0.33               |
| 2500           | 22.20                      | 0.29               |
| 5800           | 35.50                      | 0.18               |