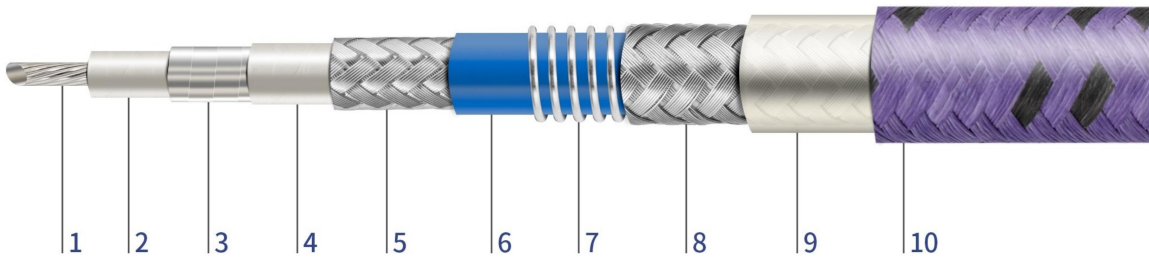


KL-400CA

High-Precision Test Cable — Armored, Phase-Stable Flex Construction



Construction Key

| Segment | Layer                   | Dimension (mm) | Material             |
|---------|-------------------------|----------------|----------------------|
| 1–6     | HC400 (base test cable) | 4.20           | FEP                  |
| 7–8     | A armor Layer           | 5.75           | Silver-Plated Copper |
| 9–10    | Outer Jacket            | 6.70           | PTFE                 |

Attenuation & Power Handling (Typical, 25°C / 40°C)

| Frequency (MHz)       | 1000  | 2000  | 3000  | 6000  | 8000  | 10000 | 12400 | 18000 | 26500 | 40000 |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Attenuation (dB/100m) | 40.5  | 57.6  | 70.8  | 100.8 | 116.9 | 131.2 | 146.6 | 178.0 | 218.0 | 271.2 |
| Avg. Power (kW)       | 0.743 | 0.523 | 0.426 | 0.299 | 0.258 | 0.230 | 0.205 | 0.169 | 0.138 | 0.111 |

Mechanical Performance

| Dynamic Bend Radius | Static Bend Radius | Mechanical Phase | Amplitude Stability | Weight     |
|---------------------|--------------------|------------------|---------------------|------------|
| 67 mm               | 33.5 mm            | ±7°              | ±0.05 dB            | 0.110 kg/m |

Main Parameter Indicators

| Operating Frequency | VSWR            | Flex Life (Repeated Bending) | Operating Temperature |
|---------------------|-----------------|------------------------------|-----------------------|
| DC–40 GHz           | ≤ 1.25 @ 40 GHz | 100,000 cycles               | –55°C ~ +125°C        |

Features & Benefits

- Low insertion loss
- Low VSWR
- Flex, vibration, torsion and tensile resistant

Typical Applications

- Laboratory test
- Anechoic chamber test
- System test
- High-precision instrument interconnect
- Field test and measurement