



GEN series 1-KAB2137-2

LEMO to male BNC breakout
cable

Special features

- GN310B breakout cable
- Male BNC
- RG-58 C/U
- 50 Ω
- UV resistant
- Wide temperature range
- Flame retardant

LEMO to male BNC breakout cable

A 2 m (6.6 ft) coaxial cable with LEMO FGG.1B.304 (male) on one side and male BNC on the other side.

This cable supports high frequency current measurements with GN310B/GN311B cards when current channels are used to measure voltages coming from e.g. current probes.

Cable Connector and Wiring

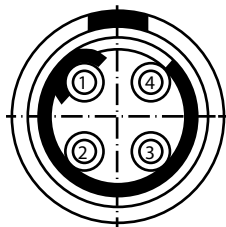



Figure 1.1: Cable connector soldering view

| Signal name (Cable wire) | Pin number |
|-----------------------------|------------|
| Not connected | 1 |
| Voltage input (Signal wire) | 2 |
| Not connected | 3 |
| Input return (Shield) | 4 |

| Electric Specifications at 20 °C | |
|---|----------------|
| Signal wire (Maximum DC resistance) | 40.7 Ω / km |
| Shield (Maximum DC resistance) | 17 Ω / km |
| Minimum isolation resistance | 5 GΩ / km |
| Maximum cable capacity at 1 kHz | 105 pF |
| Propagation speed | 66% |
| 1 MHz typical signal attenuation | 1.6 dB / 100 m |
| 5 MHz typical signal attenuation | 3.6 dB / 100 m |
| 10 MHz typical signal attenuation | 5.0 dB / 100 m |
| 20 MHz typical signal attenuation | 7.5 dB / 100 m |

| General RG-58 C/U Cable details (MIL-C 17 F) | |
|---|--|
| Signal resistance | 50 ± 2 Ω |
| Cable capacitance | 101 pF / m |
| Dielectric constant | 2.3 |
| Signal wire | Tinned braided copper wire |
| Shield wire | 94% covered tinned braided copper wire |
| Dielectric | PE (Polyethylene) |
| Cable outside | Black PVC |
| Internal diameter | 0.9 ± 0,051 mm |
| Diaelectric diameter | 4.95 ± 0,12 mm |
| Weight | 39 kg/km |
| Minimum bend radius | 30 mm |
| Operating temperature (In fixed installations) | -40 °C to +80 °C |
| Maximum operating voltage | 2 kV RMS @ 50 Hz |
| Test voltage | 5 kV |
| Flame retardant | According IEC 60332-1-2 |

| Ordering Information | | |
|------------------------------|---|------------------|
| Article | Description | Order No. |
| Male BNC voltage input cable |  <p>Shielded cable for 1-GN31xB current channels in voltage mode. LEMO breakout cable with male BNC for ease of connecting e.g. current probes. The male BNC is connected to the Voltage input pin of the current channel. The cable is one side shielded to minimize the typical impact of electromagnetic disturbance generated by high power switching power supplies. Available length: 2 m (6.6 ft)</p> | 1-KAB2137-2 |

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