

GEN series 1-KAB2140-3

LEMO to female BNC breakout cable

Special features

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

LEMO to female BNC breakout cable

A 3 meter (9.8 ft) coaxial cable with LEMO FGG.1B.304 (male) on one side and female BNC on the other side. The female BNC supports a direct connection to e.g. current probes.

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				
	Signal name (Cable wire)	Pin number		
	Not connected	1		
	Voltage input (Signal wire)	2		
	Not connected	3		
	Input return (Shield)	4		
Figure 1.1: Cable connector soldering view				



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 band 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.	
Female BNC voltage input cable		Shielded cable for 1-GN31xB current channels in voltage mode. LEMO breakout cable with female BNC for ease of connecting e.g. current probes. The female 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.	1-KAB2140-3	

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