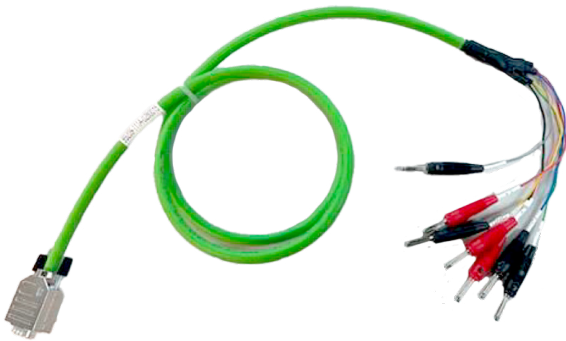


Measuring cable for RESISTOMAT® Model 2311

MODEL 99209-111A-028



Highlights

- 4/6 wires
- Connect through high quality 9 pin D-Sub-Plug
- Contact a test subject with 4 mm bunch plugs
- Shielded
- Low capacitance

Product description

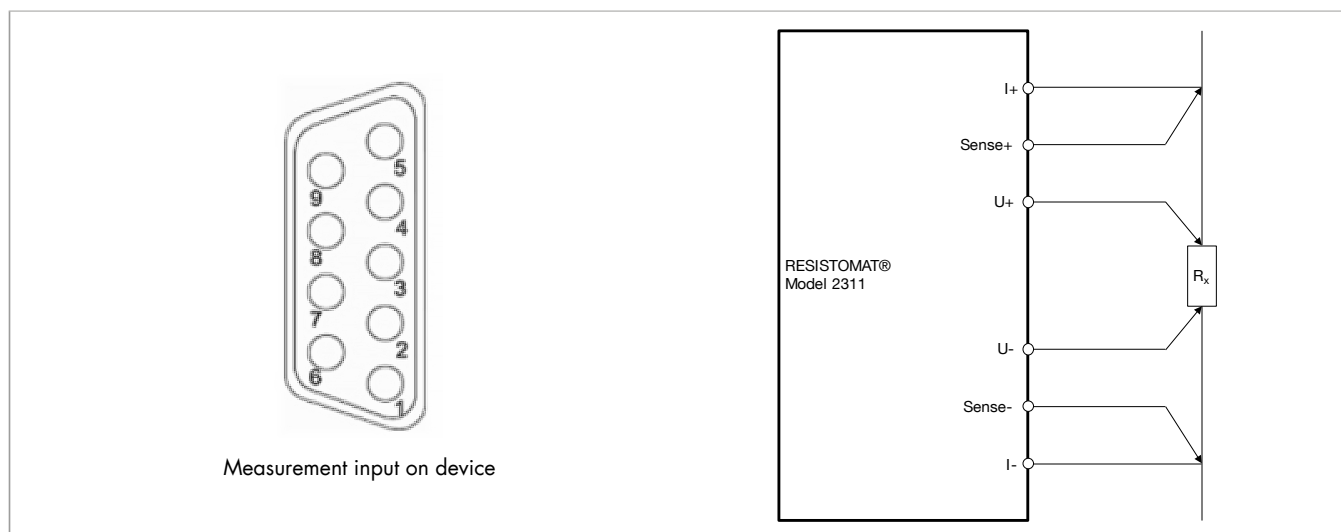
The measurement cable for the RESISTOMAT® Model 2311 is specially made for 4-wire resistance measurements. Furthermore, it provides the capability for cable-break detection. The special cable is shielded and has a low capacitance.

Technical data

General data		
Wire count		7 (including shielding)
Cable length		1.5 m; 3 m; 6 m; 10 m
Shielding		braiding of tinned copper wires, optical coverage $\geq 80\%$
Cable jacket		oil resistant, flame retardant (IEC 60332.1-2. UL resp. CSA FT1)
Operating temperature		flexible usage: -30 °C bis $+80\text{ °C}$ wire temperature fixed wiring: -50 °C bis $+80\text{ °C}$ wire temperature
Minimal bending radius		flexible usage: $10 \times$ cable diameter (temperatures $\leq +70\text{ °C}$) fixed wiring: $7.5 \times$ cable diameter
Cable diameter		ca. 8.4 mm

Connection assignment

Pin (backside of device)	Color of wire	Assignment
1	Red	I+ (measurement current)
2	Pink	Sense+ (cable break detection)
3	-	-
4	Grey	Sense- (cable break detection)
5	Blue	I- (measurement current)
6	Yellow	U+ (voltage measurement)
7	-	-
8	-	-
9	Green	U- (voltage measurement)
Casing	-	Shielding (ground)



Description

This special measuring cable for the RESISTOMAT® Model 2311 enables the full performance and precision of this device. The use of 4-wire measurement technology enables high-precision resistance measurement. The extension to 6 conductors enables conductor-specific cable break detection.

Contacting

The connection diagram above must be followed. The device under test must be physically contacted with 4 contacting conductors. Cable break detection is made possible by connecting the sense conductors to the respective contacts of the contact pins. If the device under test is connected via 6 contact points, cable break and contacting fault detection is thereby enabled.

Laying the special cable

The special cable is suitable for constantly moving applications with constantly changing bending loads (e.g. drag chains). Use on cable drums is not permitted. The cable is resistant to increased levels of oil and cooling lubricants and (at room temperature) largely resistant to the effects of acids and alkalis. Electromagnetic interference must be avoided. Ensure sufficient distance from sources of strong electromagnetic fields (power supply units, servomotors, etc.). The influence of such interferences increases with longer cable lengths.

Order code

													Standard				
													0	0	1	5	
9	9	2	0	9	-	1	1	1	A	-	0	2	8				
■ 1.5 m													0	0	1	5	
■ 3 m													0	0	3	0	
■ 6 m													0	0	6	0	
■ 10 m													0	1	0	0	