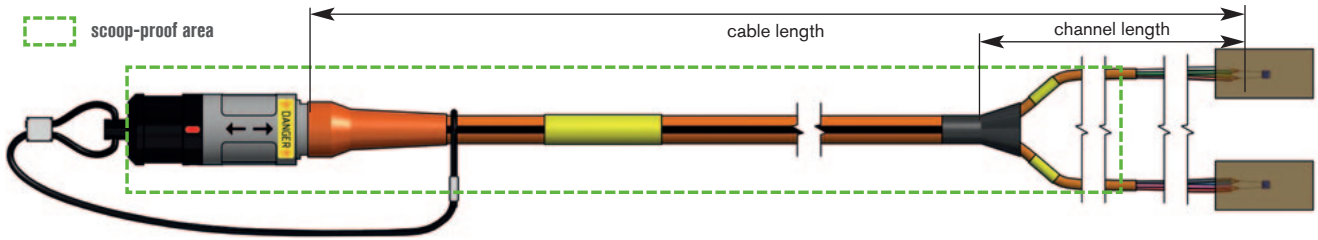


## HV temperature sensor PT100/PT1000

HV 2 x PT100/PT1000 resistance thermometer



### Application range:

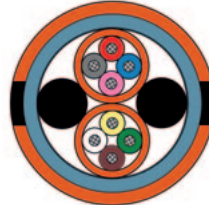
Safe HV temperature measurement in HV environments

### Connector:

Lemo Redel male connector with orange kink protection sleeve and black protecting cap, 8-pin, C-coded 1000 V AC voltage-stable – IP 67 when connected

### Sensor:

Type of sensor:	2 x PT100
Limit deviation:	class A
Wire circuit:	4-wire
Measuring point:	embedded in Pi adhesive pad
Dimension of sensor:	for example 2,3 mm x 2,0 mm x 0,47 mm (appropriate for pouch cells) or 3,0 mm x 0,80 mm x 0,60 mm
Temperature range single channel:	-30°C / +180°C



### Cable data:

	FEP	FEP
Designation:	HV measuring cable – 1 x 8 cores	HV measuring cable – 4 x 2 cores
Insulation:	FEP – acc. to DIN 47100 1-8 (core-Ø 0,45 mm)	FEP – acc. to DIN 47100 1-8
Outer sheath:	PUR	PUR
Stranding:	optimised in layers	optimised in layers
Outer diameter:	approx. 4,6 mm	approx. 7,3 mm
Dielectric strength:	1000 V AC over orange inner sheath	1000 V AC over orange bundle sheath
Temperature range fixed laying:	-40°C / +150°C	-40°C / +150°C
flexible application:	-40°C / +150°C	-40°C / +150°C

### Tests:

#### ► Cable test

core/core – 2500 V AC - 5 min  
over orange bundle sheath –  
5000 V AC – 5 min – with reference to EN 50264-2-1

#### ► Sensor test

routine test of harnessed connector with reference to standard 61010-1 for measuring devices as well as VDE indications in our in-house ball bath (released by VDE). Control of contact protection towards outside – 3000 V/1 min AC

*Issue of HV test certificate with reference to batch number due to optimum traceability*

*Optional: Test and repair of already used sensors on request*

### CONFIGURATION EXAMPLES

item no.	connection cable length [mm]	single channel length [mm]	
		channel 1	channel 2
T641-060-817	2000	70	70
T641-060-870	5000	700	700

Total cable and channel lengths can be realised on customer's request.

### SAB identification:

item number, batch number