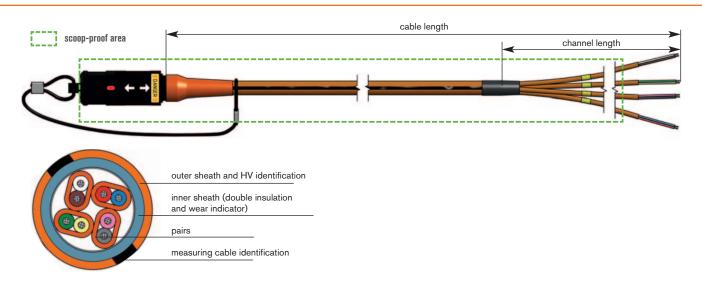# HV voltage measuring cable (90 V)

HV 4-channel voltage measuring cable for CSM measurement technology (90 V)

scoop-proof area

cable length

channel length

outer sheath and HV identification

inner sheath (double insulation and wear indicator)

pairs

measuring cable identification

Application range:

Safe HV measurements of analogue voltage combined with CSM measuring modules HV AD4 OW20, HV AD8 OW20 & HV AD4 OW1000*

*test bench & road test

Connector:

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

Connection end:

(stripping lengths)

Outer sheath:	122 mm stripped
Pair sheath:	22 mm
Open end:	2 mm
Connection:	tinned
Temperature range single channel:	-55°C / +180°C

Cable data:

Connection cable:	HV measuring cable
Core insulation:	FEP – acc. to DIN 47100 1-8
Pair sheath:	FEP – orange acc. to RAL 2004
Inner sheath:	PUR – blue acc. to RAL 5024
Outer sheath:	PUR
Sheath colour:	orange with black vertical stripes
Stranding:	paired construction (for EMC)
Outer diameter:	approx. 7,4 mm
Dielectric strength:	1000 V AC over pair sheath
Temperature range fixed laying: flexible application:	-50°C / +150°C -40°C / +150°C
Special characteristics:	contact protection also over individual channels ✓

Tests:

▶ **Cable test**
core/core – 2500 V AC - 5 min
over pair sheath –
5000 V AC – 5 min – with reference to EN 50264-2-1

▶ **Product 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 EXAMPLE

item no.	connection cable length [mm]	single channel length [mm]			connection type
		sheath	pair	core	connection
T645-062-738	2000	122	22	2	tinned

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

SAB identification:

item number, batch number