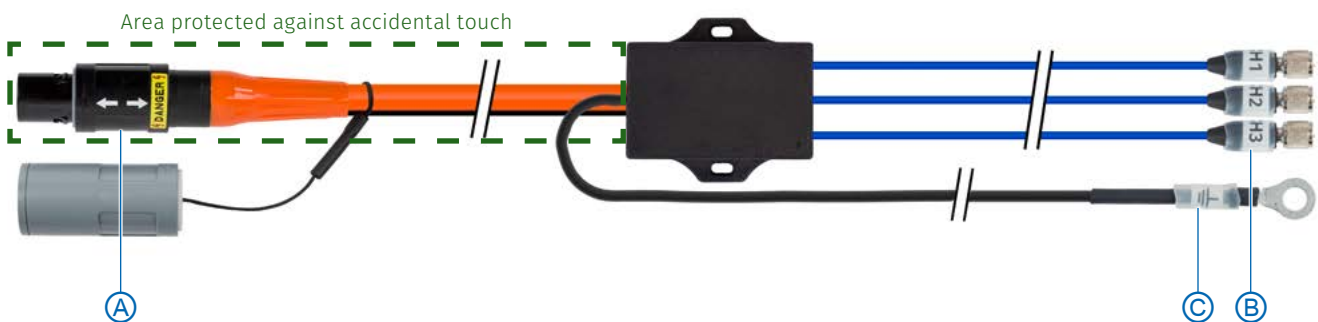




HV IEPE Connection Device 1.3

R2P 8p, Micro

High-voltage connection device between the HV IEPE3 FL1000 measurement module and three IEPE sensors (uniaxial)



Description

High-voltage connection device between the HV IEPE3 FL1000 measurement module and three IEPE sensors (uniaxial). The device comprises of an HV measurement cable, three coaxial cables and a shield cable.

Included in the shipping content is a suitable, splittable PG cable gland to safely route the HV measurement cable out of the HV environment.

The HV measurement cable is isolation tested according to EN 61010-1:2010 before delivery.

Technical data

Diameter	
HV measurement cable	4.8 mm
Coaxial cables	2.0 mm
Shield cable	2.1 mm
PG cable gland	M20 connection thread
Cable lengths	
HV measurement cable	2.0 m // 5.5 m
Coaxial cables	3.0 m
Shield cable	0.5 m
Operating temperature range	-40 °C to +100 °C, pressure resistance of HV measurement cable until about +80 °C

Connectors

A Plug LEMO Redel 2P 8-pole code C

B 3× microdot coaxial plugs (10-32)

C M4 ring terminal

Variants

Article number	Cable lengths		
	HV measurement cable	Coaxial cables	Total
ART1424100	2.0 m	3.0 m	5.0 m
ART1424101	5.5 m	3.0 m	8.5 m

NOTE!



Because cables are often exposed to chafing on bodywork parts, the HV measurement cable incorporates a visual safety concept.

- ▶ The **orange outer sheath** provides high mechanical and electrical safety.
- ▶ If the underlying **blue intermediate sheath** becomes visible, this indicates that the cable is no longer operationally safe.

WARNING!



The outer conductors (shields) of the coaxial cables (and thus also the housings of the connected sensors) and the shield of the HV measurement cable are electrically connected to each other and to the signal ground.

- ☞ Connect the shield cable to the protective conductor via the M4 ring terminal.


WARNING!



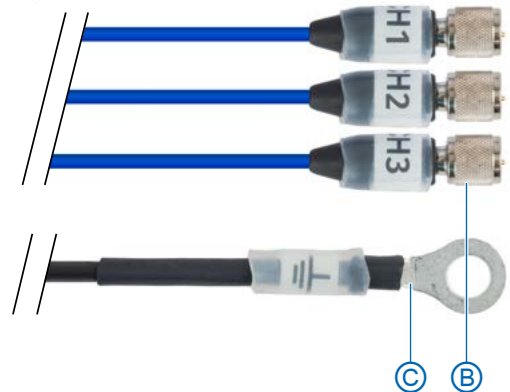
If the shield cable is not connected to the protective conductor, the microdot coaxial plugs are not protected against accidental touch. Touching the plugs or a damaged cable sheath then could result in life-threatening electric shocks.

- ☞ Do not touch plugs or damaged cables.

Pinning

Connector [Ⓐ] Pin	Signal	Connector
1	x-axis / channel 1	Ⓑ CH1
2	y-axis / channel 2	Ⓑ CH2
3	z-axis / channel 3	Ⓑ CH3
4	GND	Ⓒ 
n.c.*	Shield	

* not connected



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