

XCP/ECAT Accessories

for CSM measurement modules



CSM Accessories

We offer suitable XCP-on-Ethernet and EtherCAT® (XCP/ECAT) interface and connection cables, power supply cables, sensor cables, CAN connection cables and sync cables for our measurement modules. The portfolio is extended by HV safe sensor cables and connectors - so that you are also ideally equipped for measurement in a high-voltage environment.

The system cables for our measurement modules are specially made for the respective measurement task. They are designed for immunity to noise, low internal resistance and a wide temperature range. Furthermore, they are flexible and highly resistant to chemicals, including fuel and oil.

We also provide a wide range of other accessories, including the USB-to-CAN interface CSMcan, system and signal cables, plugs, sockets, mounting materials, antennas as well as memory cards. You can find more information on our website and in the respective accessories brochures (also available for download).

Do you still have questions or need individual solutions? Please contact us - you will find our contact details at the end.



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XCP/ECAT Interface Cables

K420e.2

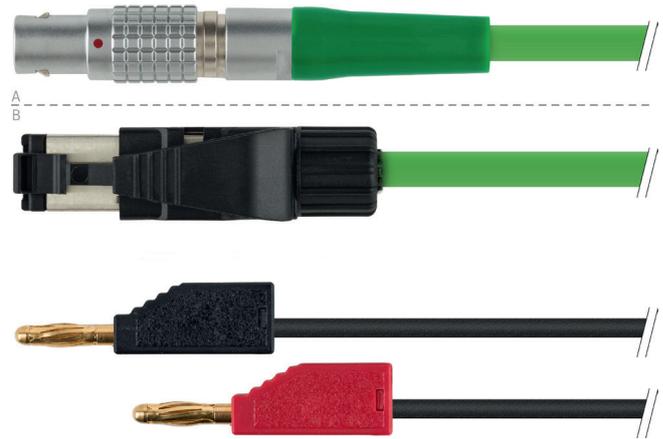
IC, L1B 8p, RJ45 8p / B

Connection cable between EtherCAT®socket/measurement module or XCP-Gateway Basic or pro and Ethernet interface of the PC, including supply line for power supply

Connectors

A Socket LEMO 1B 8-pole code L
B Plug RJ45 and banana plugs

ART1100205	K420e.2-0100	Length: 1 m
ART0202420	K420e.2-0250	Length: 2.5 m
ART1100200	K420e.2-0500	Length: 5 m
ART1100201	K420e.2-1000	Length: 10 m



K405.1

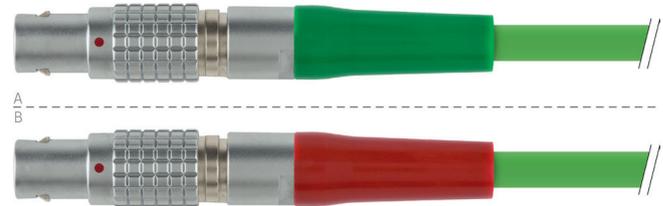
CC, L1B 8p, L1B 8p

Connection cable between XCP-Gateway Basic or pro and Ethernet interface of ETAS ES600, ES592, ES593-D or ES595, supply line for power supply integrated in the cable, power supply of measurement chain via ETAS measurement modules

Connectors

A Socket LEMO 1B 8-pole code L
B Plug LEMO 1B 8-pole code F

ART1401030	K405.1-0050	Length: 0.5 m
ART1401032	K405.1-0250	Length: 2.5 m



K425.1

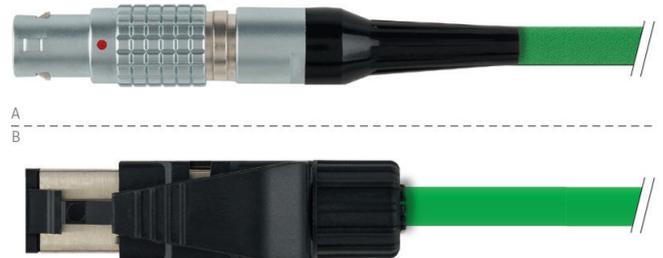
IC, L1B 8p, RJ45 8p

Connection cable (Gigabit Ethernet) for e. g. XCP-Gateway 4S pro and HV BM 3.3

Connectors

A Socket LEMO 1B 8-pole code J
B Plug RJ45

ART1412501	K425.1-0100	Length: 1 m
ART1412502	K425.1-0250	Length: 2.5 m
ART1412503	K425.1-0500	Length: 5 m
ART1412504	K425.1-1000	Length: 10 m



Power Supply Cables

K480

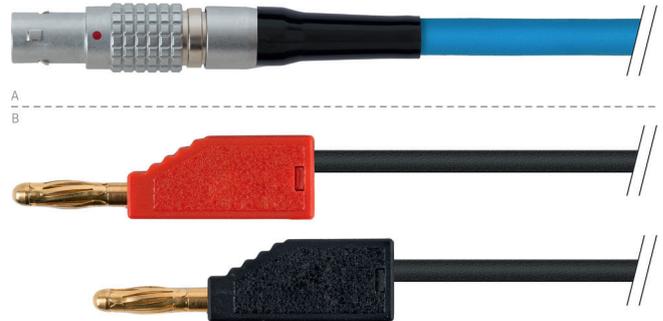
PC, L0B 5p, B

Power supply cable for XCP-Gateway 4S pro module

Connectors

A Socket LEMO 0B 5-pole code J
B Banana plugs

ART1440101	K480-0200	Length: 2 m
ART1440102	K480-0500	Length: 5 m



K485

PC, L0B 5p, B, R

Power supply cable for HV BM 3.3 with integrated 120 Ohm CAN termination resistor (yellow cable marking)

Connectors

A Socket LEMO 0B 5-pole code G
B Banana plugs

ART1440103	K485-0200	Length: 2 m
ART1440104	K485-0500	Length: 5 m
ART1440106	K485-1000	Length: 10 m



K495

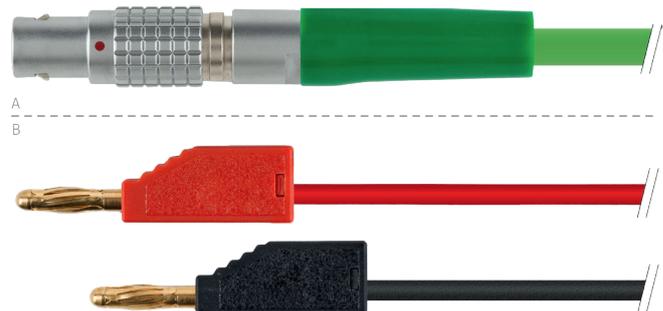
PC, L1B 8p, B

Power Supply cable for HV AD XCP module

Connectors

A Socket LEMO 1B 8-pole code L
B Banana plugs

ART1440401	K495-0200	Length: 2 m
ART1440402	K495-0500	Length: 5 m
ART1440403	K495-1000	Length: 10 m



XCP/ECAT Connection Cables

K400.1

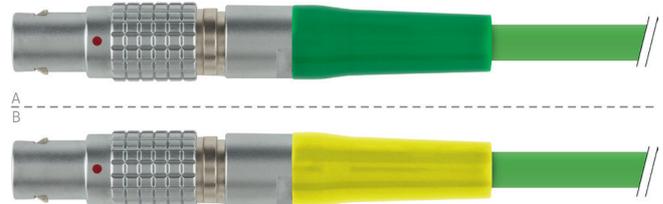
CC, L1B 8p, L1B 8p

Connection cable for cascading EtherCAT® based measurement modules

Connectors

A Socket LEMO 1B 8-pole code L
B Plug LEMO 1B 8-pole code A

ART0202401	K400.1-0025	Length: 0.25 m
ART0202402	K400.1-0050	Length: 0.5 m
ART0202403	K400.1-0100	Length: 1 m
ART0202404	K400.1-0200	Length: 2 m
ART0202405	K400.1-0500	Length: 5 m
ART1401006	K400.1-1000	Length: 10 m
ART1401007	K400.1-2000	Length: 20 m



K410.1

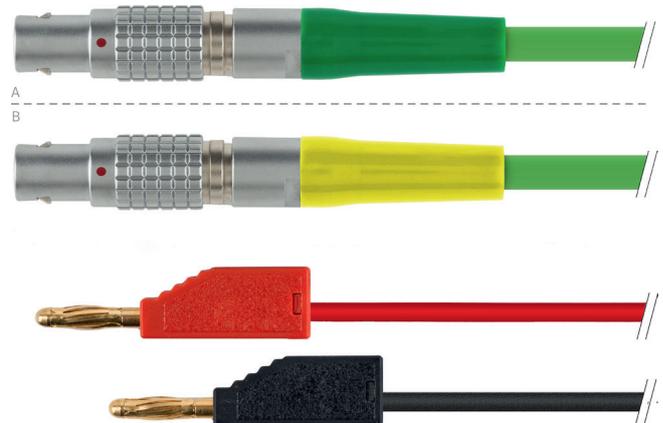
CC, L1B 8p, L1B 8p/B

Connection cable for cascading EtherCAT® based measurement modules, including supply line for intermediate power supply

Connectors

A Socket LEMO 1B 8-pole code L
B Plug LEMO 1B 8-pole code A and banana plugs

ART1401022	K410.1-0050	Length: 0.5 m
ART1090320	K410.1-0250	Length: 2.5 m
ART1401021	K410.1-0500	Length: 5 m



K490

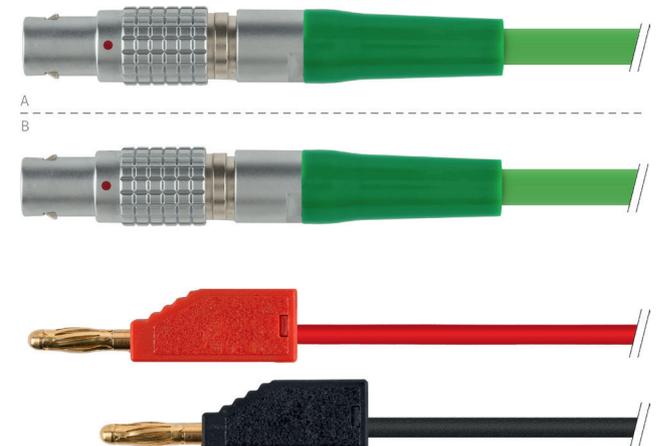
CC, L1B 8p, L1B 8p / B

Connection cable between EtherCAT® based measurement modules and XCP based measurement modules (e. g. HV AD4 XW 4000) with bidirectional feed

Connectors

A Socket LEMO 1B 8-pole code L
B Socket LEMO 1B 8-pole code L and banana plugs

ART1401051	K490-0050	Length: 0.5 m
ART1401052	K490-0250	Length: 2.5 m
ART1401053	K490-0500	Length: 5 m
ART1401054	K490-1000	Length: 10 m



Sensor Cables

K356

SC, L1B 8p, open, 1/4, T

Quarter bridge completion cable (120/350 Ohm) in 3-wire connection with preconfigured TEDS

Connectors

A Plug LEMO 1B 8-pole code G
 B Open cable end

ART1420102	K356-0200/120	Length: 2 m
ART1420101	K356-0200/350	Length: 2 m
ART1420105	K356-0500/350	Length: 5 m



K630

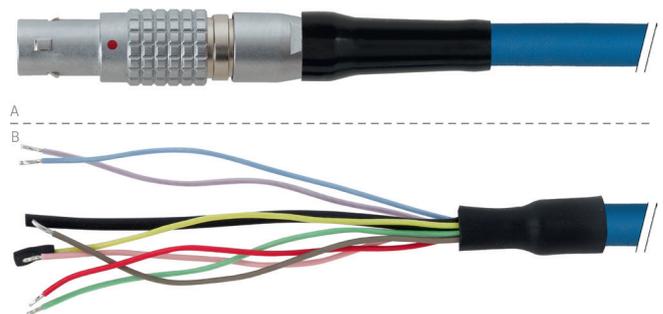
SC, L1B 8p, open

Cable between signal input/measurement module and sensor

Connectors

A Plug LEMO 1B 8-pole code G
 B Open cable end

ART1420103	K630-0200	Length: 2 m
ART1420104	K630-0500	Length: 5 m
ART1420116	K630-1000	Length: 10 m



Alternatively with integrated TEDS chip

K642

SC, L1B 8p, open, TR

ART1420112	K642-0120	Length: 1.2 m
ART1420113	K642-0500	Length: 5 m
ART1420115	K642-1000	Length: 10 m

K697

SC, L1B 8p, B

Cable between signal input/measurement module and sensor

Connectors

A Plug LEMO 1B 8-pole code G
 B Banana plugs/-socket

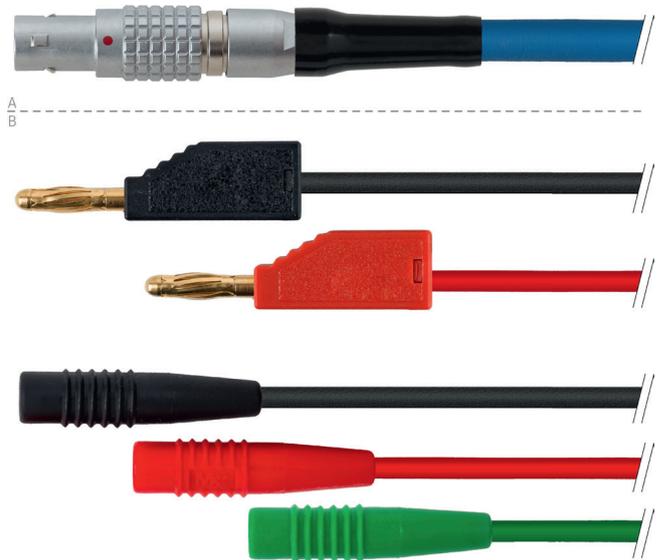
ART1420503	K697-0120	Length: 1.2 m
ART1420504	K697-0500	Length: 5 m

Alternatively with integrated TEDS chip

K643

SC, L1B 8p, B, TR

ART1420500	K643-0120	Length: 1.2 m
ART1420501	K643-0500	Length: 5 m



K645

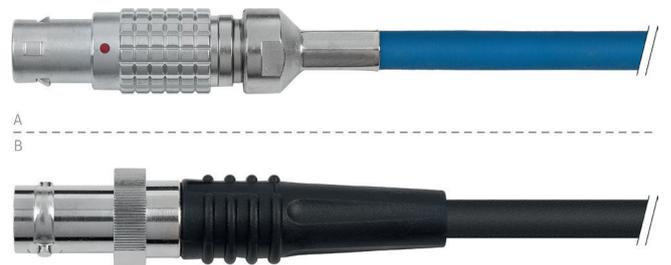
SC, L1B 8p, BNC, IEPE_U, TR

IEPE sensor cable for measuring IEPE sensors using an AD4 OE100 module, with integrated TEDS chip

Connectors

A Plug LEMO 1B 8-pole code G
 B Socket BNC

ART1420310	K645-0050	Length: 0.5 m
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K701

SC, L1B 8p, BNC

Sensor cable for measuring sensors with BNC (female) connector

Connectors

A Plug LEMO 1B 8-pole code G
 B Plug BNC

ART1420321	K701-0120	Length: 1.2 m
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Alternatively with integrated TEDS chip

K650

SC, L1B 8p, BNC, TR

ART1420320	K650-0120	Length: 1.2 m
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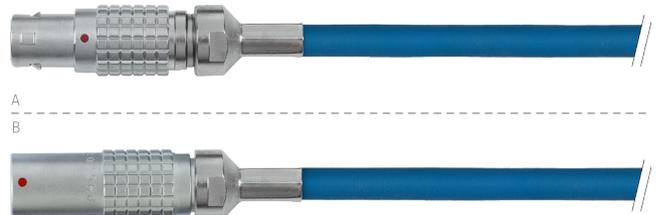
K662

EC, L1B 8p, L1B 8p
Sensor extension cable

Connectors

- A Plug LEMO 1B 8-pole code G
- B Connector LEMO 1B 8-pole code G

ART1430400 K662-0300 Length: 3 m



K695

SC, L1B 8p, Micro, IEPE_U, TR
Cable between a measurement module and a triaxial sensor

Connectors

- A Plug LEMO 1B 8-pole code G
- B Socket Microcom 4-pole

ART1427000 K695-0180 Length: 1.8 m



K691

SC, L1B 8p, L0B 6p
Cable between a measurement module and a sensor LEMO 0B 6-pole

Connectors

- A Plug LEMO 1B 8-pole code G
- B Connector LEMO 0B 6-pole code A

ART1420701 K691-0020 Length: 0.2 m



HV Sensor Cables

K902

SC, R2P 8p, open

Connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 90 V, shielding per channel for suppressing interferences

Connectors

- A Multi connector LEMO Redel 2P 8-pole code B
- B 4 x open cable end, 2 wires + shield each

ART1423803	K902-0200	Length: 2 m
ART1423804	K902-0300	Length: 3 m



K903

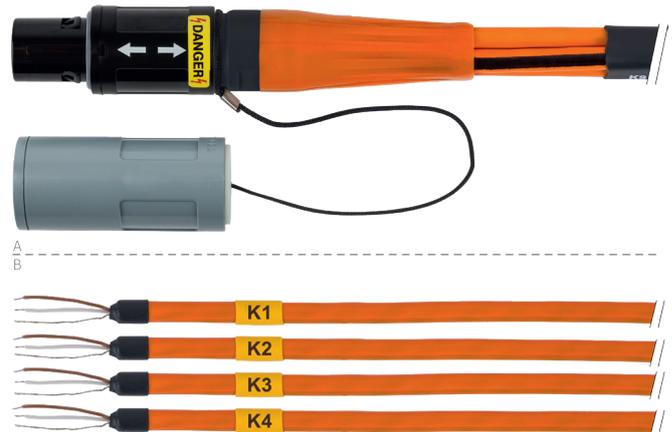
SC, R2P 8p, open

Connection cable (4 x HV single channel cable) between an HV analog measurement module and 4 sensors (without sensor supply) and measurement voltage up to 90V, shielding per channel for suppressing interferences, HV safe single channel from plug end

Connectors

- A Multi connector LEMO Redel 2P 8-pole code B
- B 4 x open cable end, 2 wires + shield each

ART1423806	K903-0200	Length: 2 m
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K912

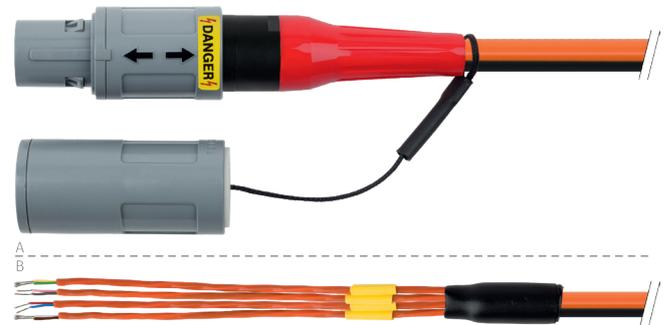
SC, R2P 8p, open

Connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 1,000 V, shielding per channel for suppressing interferences

Connectors

- A Multi connector LEMO Redel 2P 8-pole code D
- B 4 x open cable end, 2 wires + shield each

ART1423703	K912-0200	Length: 2 m
ART1423704	K912-0300	Length: 3 m



K913

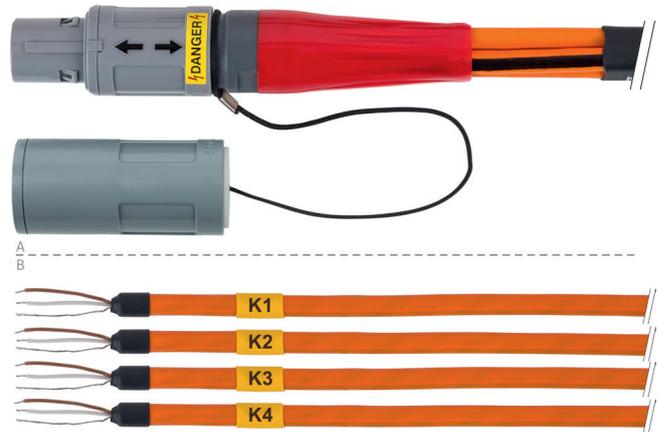
SC, R2P 8p, open

Connection cable (4 x HV single channel cable) between an HV analog measurement module and 4 sensors (without sensor supply) and measurement voltage up to 1,000V, shielding per channel for suppressing interferences, HV safe single channel from plug end

Connectors

- A Multi connector LEMO Redel 2P 8-pole code D
- B 4 x open cable end, 2 wires + shield

ART1423706	K913-0200	Length: 2 m
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K920

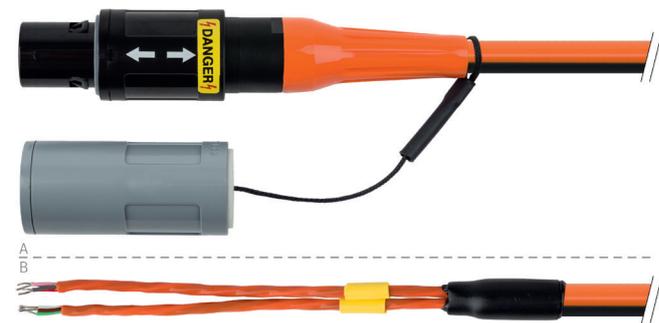
SC, R2P 8p, open

Connection cable between an HV analog measurement module and 2 sensors (with sensor power supply)

Connectors

- A Multi connector LEMO Redel 2P 8-pole code C
- B 2 x open cable end, 4 wires + shield

ART5810400	K920-0200	Length: 2 m
ART5810401	K920-0300	Length: 3 m



K960

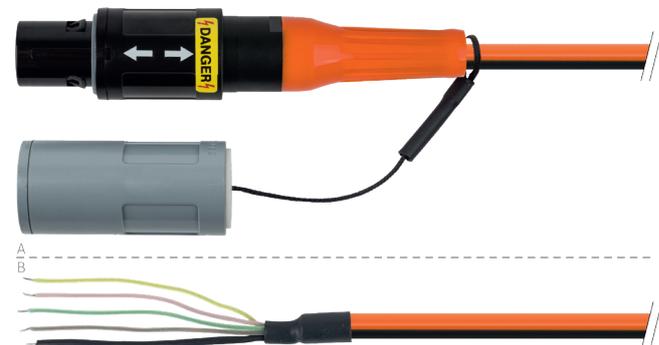
SC, R2P 8p, open

Connection cable between an HV IEPE3 FL100 measurement module and IEPE-Sensor (triaxial, uniaxial)

Connectors

- A Multi connector LEMO Redel 2P 8-pole code C
- B open cable end, 4 wires + shield

ART1424000	K960-0200	Length: 2 m
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K963

SC, R2P 8p, Micro 4p

Connection cable between an HV IEPE FL 100 measurement module and ICP sensor (triaxial)

Connectors

- A Multi connector LEMO Redel 2P 8-pole code C
- B Socket Microcom 4-pole, led out cable shield with ring eyelet

ART1424300	K963-0200	Length: 2 m
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K981

SC, R2P 8p, open

Connection cable between an HV STG measurement module and DMS fullbridge or halfbridge

Connectors

- A Multi connector LEMO Redel 2P 8-pole code E
- B 4 x open cable end, 2 wires + shield

ART1424210	K981-0200	Length: 2 m
ART1424211	K981-0300	Length: 3 m



Alternatively with integrated TEDS chip

K980

SC, R2P 8p, open, TR

ART1424200	K980-0200	Length: 2 m
ART1424201	K980-0300	Length: 3 m

CAN Connection Cable

K70

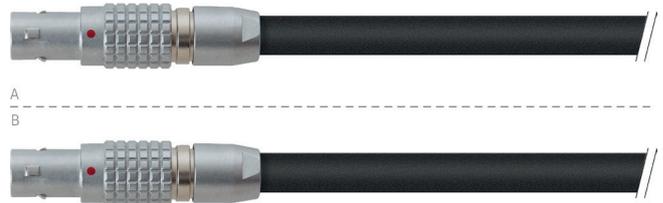
CC, LOB 5p, LOB 5p

Connection cable between CAN-based measurement modules and XCP-Gateway

Connectors

A Plug LEMO 0B 5-pole code G
B Plug LEMO 0B 5-pole code G

ART0201054	K70-0050	Length: 0.5 m
ART0201055	K70-0100	Length: 1 m
ART0201056	K70-0200	Length: 2 m
ART0201052	K70-0300	Length: 3 m
ART0201057	K70-0500	Length: 5 m
ART0201058	K70-1000	Length: 10 m
ART1040100	K70-2000	Length: 20 m
ART0201070	K70-0025	Length: 0.25 m



Sync Cable

K665

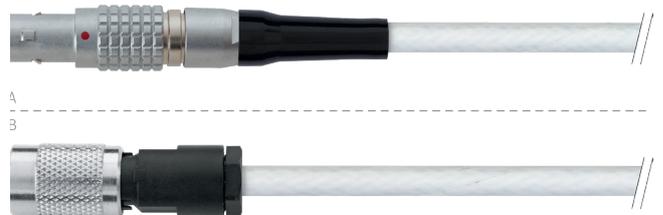
CC, LOB 2p, Bi 712 3p

Sync adapter cable for Vector Sync function. Connects an XCP-Gateway with LEMO socket and a Vector interface with Binder connector.

Connectors

A Plug LEMO 0B 2-pole code G
B Socket Binder 712 3-pole

ART1403000	K665-0200	Length: 2 m
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Plugs

Protection Plug

Plug for protecting connectors from pollution

ART1030500	LEMO 0B, code G	socket CAN IN/OUT
ART1030600	LEMO 1B, code G	signal input socket
ART1030601	LEMO 1B, code A	socket ECAT OUT
ART1461100	LEMO 1B, code L	socket ECAT IN



Antenna

UMTS/GPS Flexible Antenna

FME, SMA

Antenna for XCP-Gateway 4S pro with adhesive pad for fast mounting on flat surfaces and glass

	GSM / UMTS (A)	GPS (B)
Frequency	698 - 960, 1710 - 2700 MHz	1562 - 1612 MHz, circularly polarised, clockwise
Max. power	20 W	
Power supply		3 - 5 V, typ. 15 mA
Connection	FME Socket	SMA Plug
Dimensions ($\varnothing \times H$)	approx. 69 × 15 mm	
Operating temperature range	-30 °C to +70 °C	
ART6300000	Length: 3 m	



About us

CSM Computer-Systeme- Messtechnik GmbH

CSM is a leading, highly innovative manufacturer of distributed networked, robust measurement technology and data loggers for use on test benches and in vehicles. We have been setting technological standards in this field for more than 40 years. Our products are successfully used worldwide by almost all well-known manufacturers of passenger cars and commercial vehicles as well as their suppliers and service providers.

Permanent innovation and long-term satisfied customers are our guarantee for success. With our high-voltage safe measurement and breakout modules, developed for fast and synchronous measurements on electric and hybrid vehicles, we actively accompany our customers' transition to, or entry into electromobility.

Together with our partner Vector Informatik, we offer harmonized solutions for measurement data acquisition and analysis based on CSM measurement hardware and Vector's interfaces and software, such as the E-Mobility Measurement System: A scalable complete solution for analyzing, calibrating, testing, validating and also homologating electric and hybrid vehicles.



Measurement Technology for E-Mobility

We accompany you on the way to the future



Service & Support

Do you have special questions or technical requests for the use of the CSM measurement technology? Please contact us, our Service & Support is at your disposal.

Please use our telephone hotline:

+49 711-77 964-444

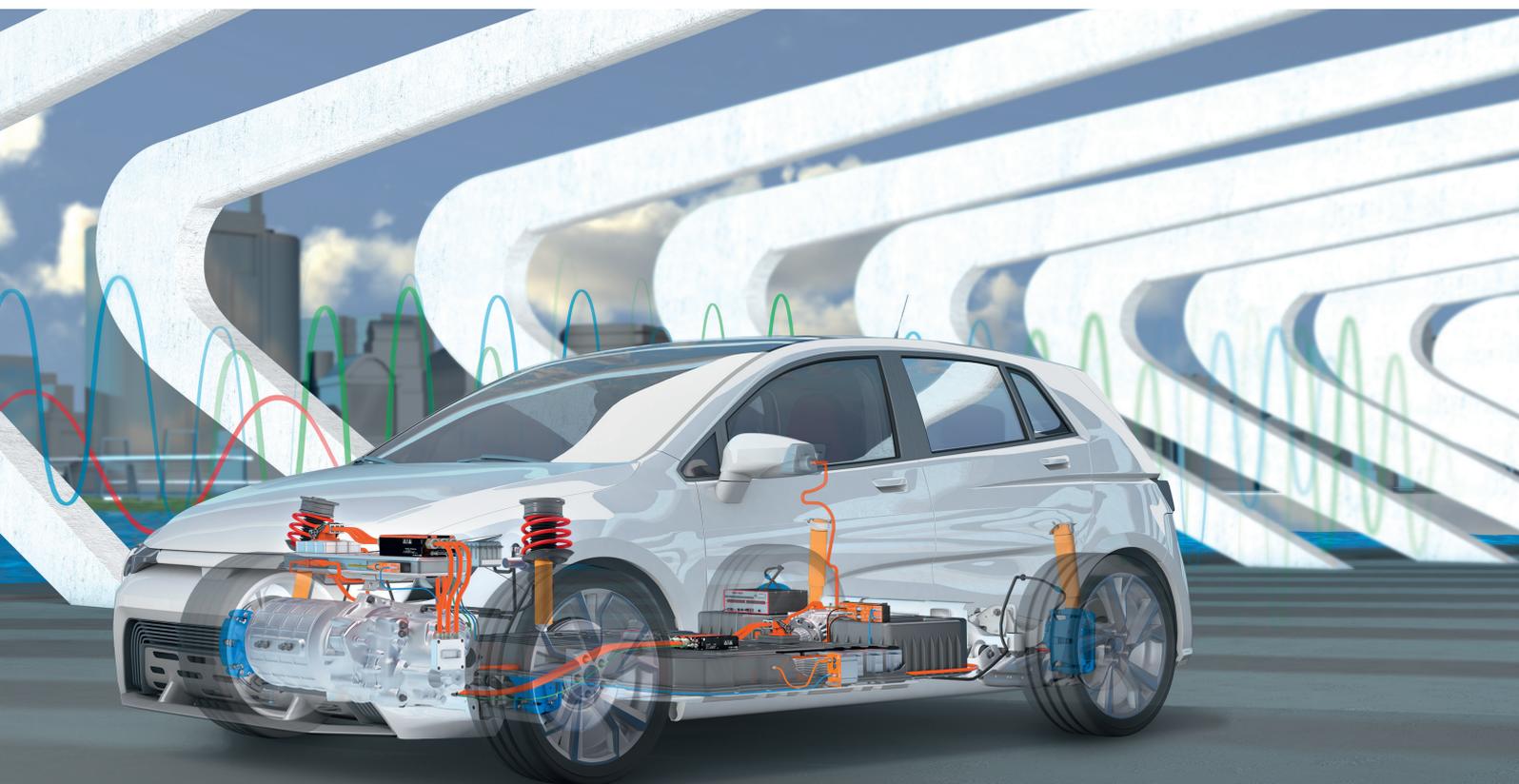
Or contact us via our website: www.csm.de under the keyword »Support«.

All Products, Data, and Information at a Glance

Our website www.csm.de provides you with further information about the CSM measurement modules and data loggers. Make use of our solutions for the development and testing of passenger cars, commercial and special vehicles, construction and agricultural machinery, cranes, wind turbines, airplanes, ships etc.

- ▶ Overview of the entire product portfolio
- ▶ Application examples
- ▶ Direct download: the latest CSM software versions
- ▶ Easy access to data sheets and product information

www.csm.de





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