DCS

The DCS (Direct Contact System) connection system is characterized by a high current carrying capacity combined with minimal space requirements. At 85 °C, the current carrying capacity is 340 A with a cable cross section of 70 mm^2. A secure connection is achieved with a combination of contact tab and retaining tab by means of a simple plug-in action. Furthermore, this robust connection system offers detachable and non-detachable variants. The connection system can be used for battery charging or for the connection between the battery and the motor components in electric vehicles.

Technical Properties

- Current capacity (70 mm^2): 340 A at 85 °C
- Working voltage 750 V DC
- Test voltage 4300 V DC
- Cross sections 35 - 70 mm^2
- IP Class mated acc. to IPX6K9K / IPXXD
- ~~IP Class unmated acc. to IPXXD~~
- Disconnectable version under development

Features and Benefits

- Minimal installation space
- Removable or unremovable

Applications

- Battery connection
- E-machine
- Charger

Cables

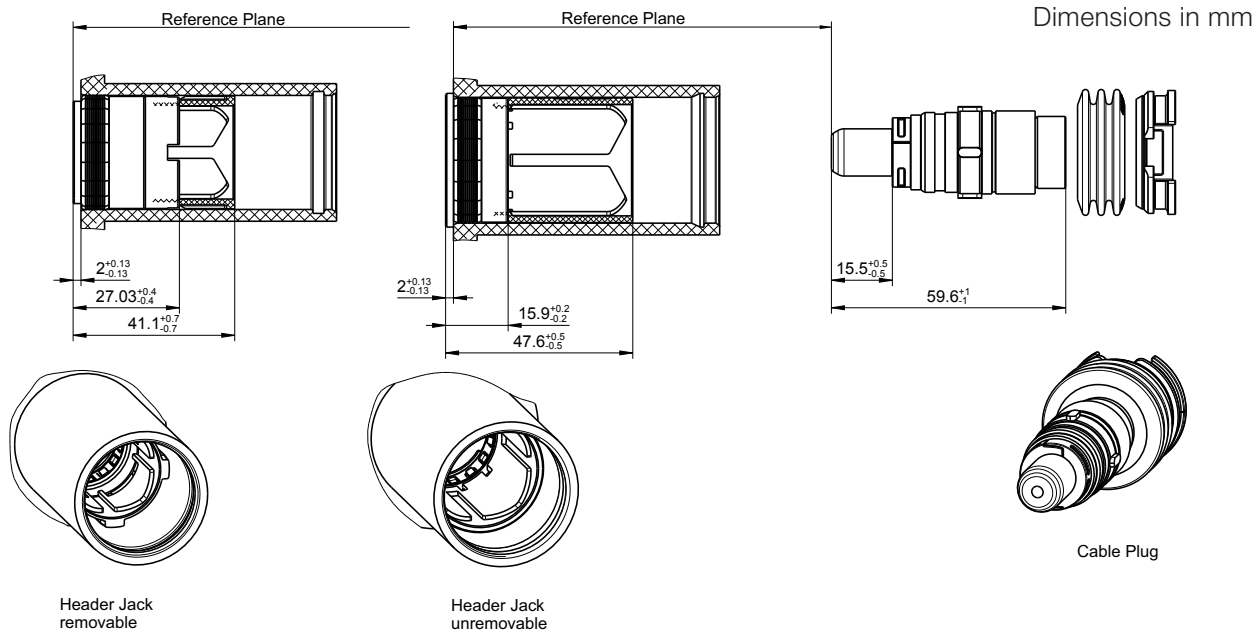
- FHLR2GCB2G 35 mm^2 / 0.21 mm
- FHLR2GCB2G 50 mm^2 / 0.20 mm
- FHLR2GCB2G 70 mm^2 / 0.20 mm

Coding DCS

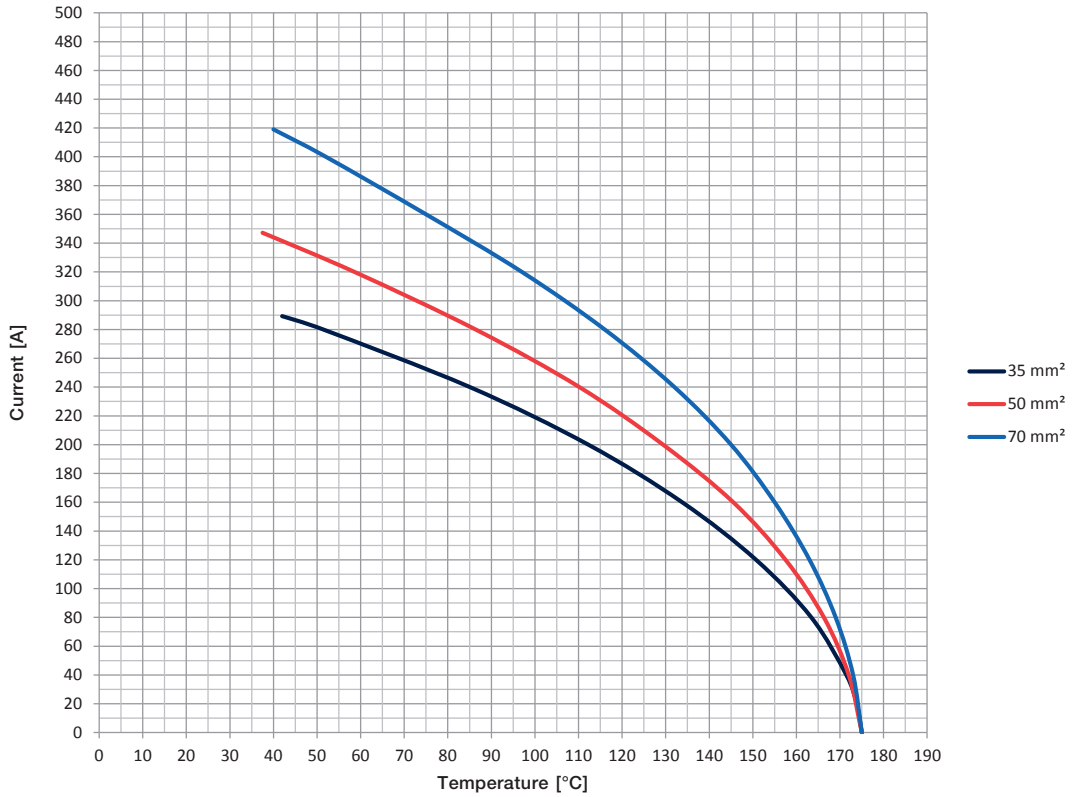
Coding	Color/RAL-No. (Similar)		Jack Removable	Jack Unremovable	Plug
A	Red/ 3001				
B	Black/ 9005				

Colors of the plastic housings are in accordance with the listed RAL colors, minor color differences during manufacturing are possible.

Interface Dimensions DCS (Code H9)



Derating Graph DCS acc. to DIN EN 60512-5-2



Technical Data DCS (Code H9)

Applicable Standards

Interface according to	RN_103-01

Electrical Data

Insulation resistance	≥ 200 MΩ at 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Center contact resistance	≤ 0.24 mΩ
Outer contact resistance	< 9.00 mΩ
Current capacity for 70 mm^2	350 A at 85 °C
Test voltage	4300 V DC
Working voltage	1000 V

Mechanical Data

Engagement force	< 100 N
Coding efficiency	> 300 N
Cable cross sections	35 mm^2, 50 mm^2, 70 mm^2
Cable connection angle	180°
Vibration class	LV215 PG17 – II
IP class (mated)	IPX6K9K / IPXXD

Environmental Data

Temperature range	-40 °C to +130 °C
RoHS	compliant

Rosenberger connectors fulfill in principle the indicated data of the technical data. Individual values of connectors may deviate depending upon application, design, type of cable, assembly method and execution. Specific data sheets for particular products can be provided on request from your Rosenberger sales partner.