

LVR[®]120

The LVR[®]120 connectors come under the class of low-voltage products. Achieving around 120 A at 85 °C and with a cable cross section of 16 mm², they are used for applications such as electrical superchargers and currently achieve vibration severity level 3. The additional slide locking mechanism (CPA – Connector Position Assurance) prevents the connection from unmating accidentally.

Technical Properties

- Current capacity (16 mm²): 120 A at 85 °C
- Working voltage 48 V DC
- High temperature range from -40 °C to +150 °C
- Vibration level III acc. to LV215, PG17
- IP class mated acc. to IP6K9K / IPX8 / IPXXD

Features and Benefits

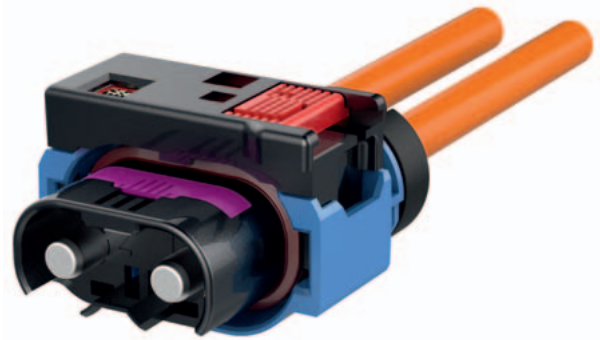
- Low weight
- Small dimensions

Applications










- Electrical supercharger

Cable

- FHL2G 16 mm² / 0.20 mm



Coding LVR[®]120

Coding	Plug Color/RAL-No. (Similar)		Plug	Jack
A	Black/ 9005			
B	White/ 9010			
Z	Waterblue/ 5021			

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

Technical Data LVR[®]120 (Code H5)

Applicable Standards

Interface according to	Rosenberger RN_110-03
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Electrical Data

Insulation resistance	> 200 MΩ
Center contact resistance	≤ 0.30 mΩ
Current capacity for 16 mm ²	120 A at 85 °C
Test voltage	500 V DC
Working voltage	48 V

Mechanical Data

Mating cycles	≥ 50
Engagement force	≤ 80 N
Coding efficiency	≥ 300 N
Cable cross sections	16 mm ²
Cable connection angle	180°
Vibration class	according to LV 215 PG17 – III
IP class (mated)	IP6K9K / IPX8 / IPXXD

Environmental Data

Temperature range	-40 °C to +150 °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.