

HIRSCHMANN Automotive PowerStar HPS In-Line Connector

Maximum Reliability at High Current Load and High Temperatures



Safe separating point that enables the flexible design of in-vehicle high-voltage electrical systems.

The shielded and sealed HIRSCHMANN Automotive PowerStar In-Line connection system offers an optimal separatingpoint and enables top installation conditions thanks to its compact design. The product series complies with all global standards and automotive industry standards, and is optionally available with an interlock feature. All of our components and their processes are designed in such a way that they are suitable for full automation.

Characteristics:

- high current load at high ambient temperatures

2 + 2 Way

U = 1000 VDC

37 A/140°C

-40°C to +140°C

Cat. 1: 40 A (6.0 mm²) (see derating) 64 A/80°C: 55 A/100°C: 45 A/125°C:

IPXXD (mounted), IPXXB (demounted)

 $< 2 \ m\Omega$ (total from sheathed cable to

As per LV 215-1, PG 17, SG3 vibration profile, SG4 temperature profile (first cable fixing point at 200 mm)

 $2.5\,mm^2,\,4.0\,\,mm^2,\,and\,6.0\,\,mm^2$

Load contacts: at least 2 mm, leading

Incorrect insertion force: at least 300 N

> 70 dB (10 KHz to 5 MHz) > 65 dB (5 to 500 MHz)

360°, circumferential

unit housing); I = 20 A

 2×2.5 to 6.0 mm²

4.0 mm (HCT4)

Max. 50 cycles

As per LV 215-1

Ag

Crimped

< 75 N

Yes

Yes

Activation force: < 50 N, no unintentional opening possible

IP6K9K and IPX8

PG 23 as per LV 214

- 360° shielded connection
- compact design
- low shielded transition resistance
- watertight to IP6K9K
- simple installation

Key Features

Operating conditions Environmental conditions

IP protection class

Shielded transition

Vibration resistance

Cable cross sections

Round contact system

Number of connection cycles Transition resistances

Contact surface Line connection

Wire size range

Housing system Contact-protected HV plug connector with external HVIL system

Connection and

disconnection force

Secondary locking

Polarization/coding

Koshiri safety

Watertightness

CPA

EMC

Current-carrying capacity

Shielded transition resistance











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