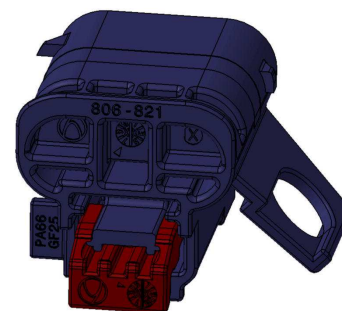
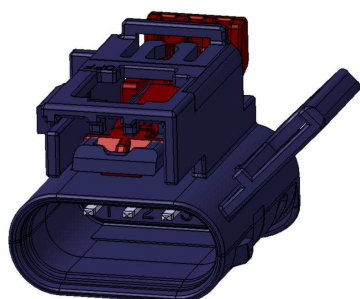
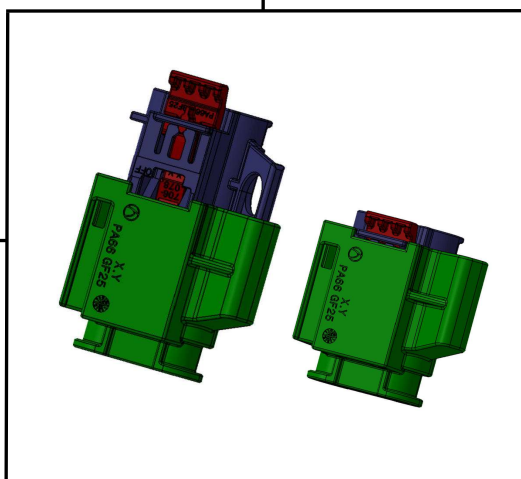
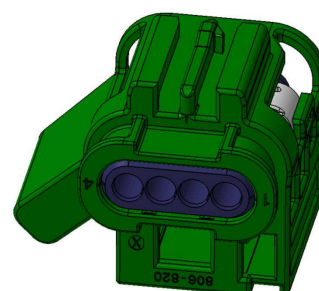
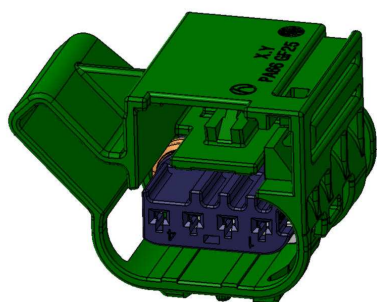




HIRSCHMANN
AUTOMOTIVE

Product Specification

HV-Device



EPS-100054-00
Edition November 2016



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2. General Information

2.1. Introduction

This product specification is valid for all at point 2.2 headed parts of the HV-Device and includes the product components, the delivery status, technical features as well as the quality tests.

In case of inappropriate, deviating processing and subsequent quality problems the right of recourse will be rejected.

2.2. Applying relevant Information/Documentation

- | | | |
|----|--|---|
| a) | Processing Specification | EVS-100054-00 |
| b) | Product Specification Kostal
DOC00076784 | Mini lamina contacts MLK 1.2 |
| c) | Processing Specification Kostal
DOC00061540 | Mini lamina contacts MLK 1.2 |
| d) | “Deutsche Norm”
DIN EN 60352-2 | Solder free electrical connection
Part 2: crimp connection |



3. Technical Characteristics

3.1. Operating Temperature

Built-in space : Engine category

Allowed temperature range for the plastic material.

Operating temperature: -40°C up to +150°C
Can withstand exposure up to 180°C at intermittent.
Periods and up to a total of max. 300 hours.
See plastic material data sheet.

Functionality of the HV-Device see DVP.

3.2. Tightness of Socket- and Plug housing

When using 1.2 Contacts with seal: **IP6K9K**

The single wire seal must not be exposed unprotected to the steam jet.

3.3. Retention Force of Contacts to the Socket housing

The contact tear forces from the Socket housing are

$F_{\text{Primary}} \geq 55\text{N}$ and $F_{\text{Secondary}} \geq 55\text{ N}$

3.4. Retention Force of the Jumper to the Plug housing

The retention force of each jumper is min. 50N

3.5. Mounting and Demounting Forces

Max. force for the first assembling of the Socket housing to the Plug housing to preposition max. 90N. After the first assembling, it is not possible to remove the parts from each other without damaging.

3.6. Mounting and Demounting Forces

Close the HV-Device from pre- in end position	max. 75N
Open the HV-Device from end- in preposition	max. 75N

3.7. Characteristic of Contact System

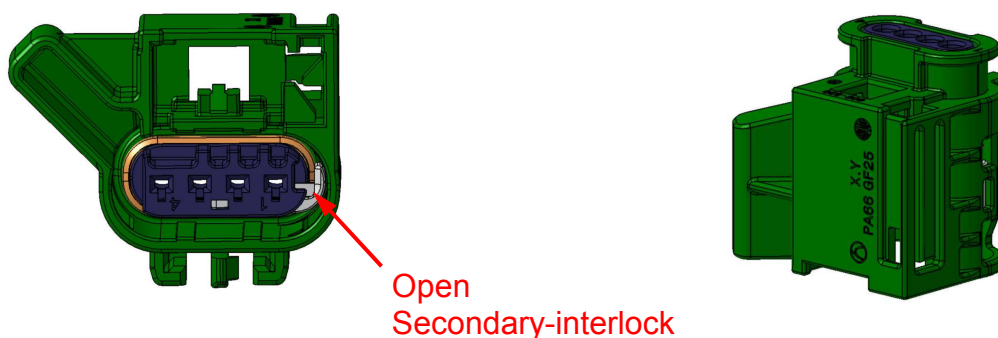
Max. permitted conductor cross section: 1mm² with seal



4. Delivery Condition / Product Components of the Socket housing

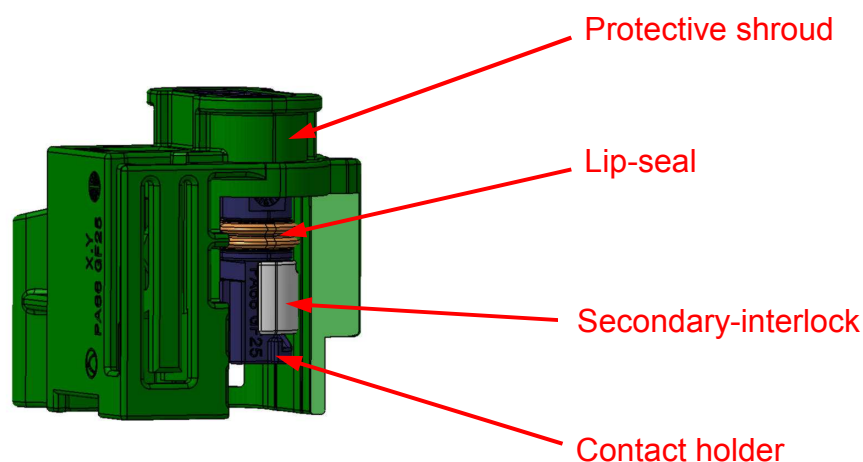
4.1. Delivery Condition

The Socket housing from the HV-Device will be delivered with an open secondary interlock.



4.2. Product Components

The Socket housing from the HV-Device consists of the contact holder, lip-seal, secondary-interlock and protective shroud.





5. Delivery Condition / Product Components of the Plug housing

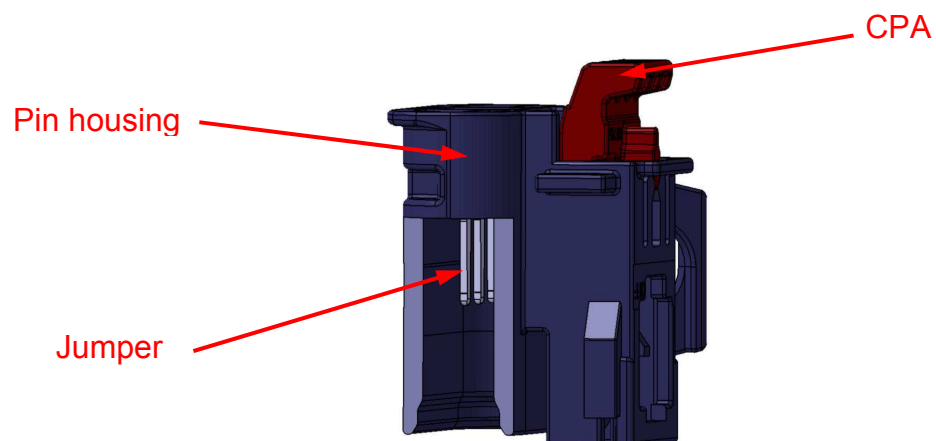
5.1. Delivery Condition

The Plug housing from the HV-Device will be delivered with CPA in preposition.



5.2. Product Components

The Plug housing from the HV-Device consists of the pin housing, 2 jumpers and the CPA.





6. Executed Tests

Tests according to LV 214 2010-03 Working Committee Test Guideline! Tests according the MLK contact are mentioned in the Kostal- product specification.	
PG 0	Receiving inspection and testing
PG 1	Dimensions
PG 2	Material and surface analysis, contacts
PG 3	Material and surface analysis, housings
PG 4	Contact overlap
	Cut off safety by the handling of a 4mm padlock
PG 6	Interaction between contact and housing
PG 7	Handling and functional reliability of the housings
	Holding force of the contact housing to the protective shroud
PG 8	Insertion and retention forces of the contacts
PG 9	Skewed insertion angle
PG 13	Effect of the housing on derating
PG 17	Dynamic stress
PG 20	Subjection of the housings to climatic load
	Holding force of the jumper
PG 21	Long-term temperature storage
PG 22	Resistance to chemicals
PG 23	Water tightness
PG 29	Holding force of the blind seal
	Holding force female housing to pin housing

Product specific deviations are shown in the DVP-overview.



7. Index change table

Edition	Index	Editing
00	First edition November 2016	Kiechle