

HDC EN 0006

Topic: Connection possibilities with HDC

Overview:

The contacts in a heavy duty connector can be connected to the conductor using various techniques. Each connection technique has its advantages and disadvantages. This document compares the different techniques.

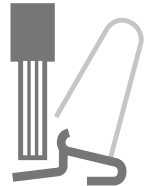
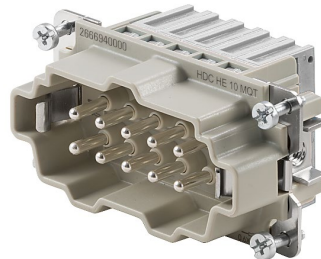
The different versions:

The first heavy-duty connectors were equipped with a Screw connection with wire protection. This solution is easy to understand and is used all over the world. The high degree of popularity offers the greatest advantage here.

Disadvantages of this technology are the time-consuming processing and the less pronounced vibration resistance.

Crimp technology followed later. This requires considerably less space and is cost-effective in terms of material. However, this technology is often rejected in mechanical engineering because it requires a special tool. The high vibration resistance, however, has mainly driven its use in railway vehicles.

Fixed pole SNAP IN Insert



A connection was required that can be connected quickly and still has a high vibration resistance. This could be achieved by using tension spring technology. However, this was only a temporary solution to the PUSH IN technology, as the tension spring has to be opened separately before connection. This is not necessary with the PUSH IN technology.

Overcoming the PUSH IN spring force when connecting the conductor was then improved in the following technology. In SNAP IN inserts, a release mechanism first releases the preloaded spring, which then makes contact. Today the SNAP IN technology is the most modern existing connection solution worldwide.

Part numbers SNAP IN inserts

Description	Part number	Pol number	Size	Version
HDC HE 06 FQT	2666920000	6	3	Female
HDC HE 6 MQT	2666910000	6	3	Male
HDC HE 10 FQT	2666930000	10	4	Female
HDC HE 10 MQT	2666940000	10	4	Male
HDC HE 16 FQT	2666950000	16	6	Female
HDC HE 16 MQT	2666970000	16	6	Male
HDC HE 24 FQT	2666990000	24	8	Female
HDC HE 24 MQT	2667010000	24	8	Male

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