

## HDC EN 0007

### Topic: Data transmission CAT 5 and CAT 6

#### Ethernet in the connector

Data transmission in heavy-duty connectors is subject to special requirements because interference pulses from other areas must be avoided and because data cables are particularly difficult to connect due to their high number of strands and the shield connection. The aim is therefore to make the transmission of data as secure as possible and not to make the assembly too difficult.

#### Technology

Weidmüller's modular system offers data inserts that are suitable for both CAT 5 cables and CAT 6A cables. Each module enables two cables to be connected. The cables can either be purchased as pre-assembled cables and simply inserted into the modules, or the cables can be connected themselves. The cables are available in different lengths from the factory.

The advantage of these products lies in their easy handling. Especially CAT 6A cables, which contain four pairs of wires in one cable with several shields, are not easy to handle.

#### Data inserts in ModuPlug



The connectors themselves are technically based on the M12 system. In particular, the CAT 6A connector is very similar in design to the X-coded M12.

If pre-assembled cables are to be used due to unknown cable lengths, corresponding freely assemblable connectors can also be obtained.

#### Application and areas of use

These data lines are often installed together with the supply lines in a heavy-duty connector in one insert. This combination is possible in our ModuPlug family.

#### Part numbers data inserts

Description	Part number	Number of chambers	Design
HDC MBUS 2 FC	1429020000	2	Module insert female
HDC MBUS 2 MC	1428990000	2	Module insert male
HDC XX5E01 MFSXXXX-0150	2453550150		Cat 5 cable, length 1.5m*
HDC XX6A02 MFSXXXX-0150	2503800150		Cat 6A cable, length 1.5m*

\*Further lengths and cable qualities can be selected online.

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