

Circular Connectors

M 40 Hybrid: Three in One

Hybrid connectors are gaining increasing acceptance on the market. More and more users are turning to this technology. This practical example shows how to use hybrid technology and still continue to use conventional cabling.

Challenge

The trend towards miniaturisation in automation continues. Drives and controls are becoming smaller and smaller, and with them the installation space for connectors and supply cables. This is why hybrid connectors are gaining increasing acceptance on the market. What should be done if, instead of the costly one-cable solution (one-cable technology), the cabling should be retained with three conventional, low-cost cables? Such cables are often already approved and the user saves expensive approval processes.

Solution

The solution in this example consists of an M 40 hybrid connector and a special multi insert. This combination enables the merging of three cables into one

connector. Three connectors become one. The M 40 Hybrid replaces an M 40 power connector, an M 23 signal connector and an RJ 45 data connection.

Advantages

The application with the hybrid connector has numerous advantages

- // Reduced number of connectors
- // Reduced assembly effort
- // Cost savings
- // Weight and space savings
- // Reduced number of cables (one-cable technology)

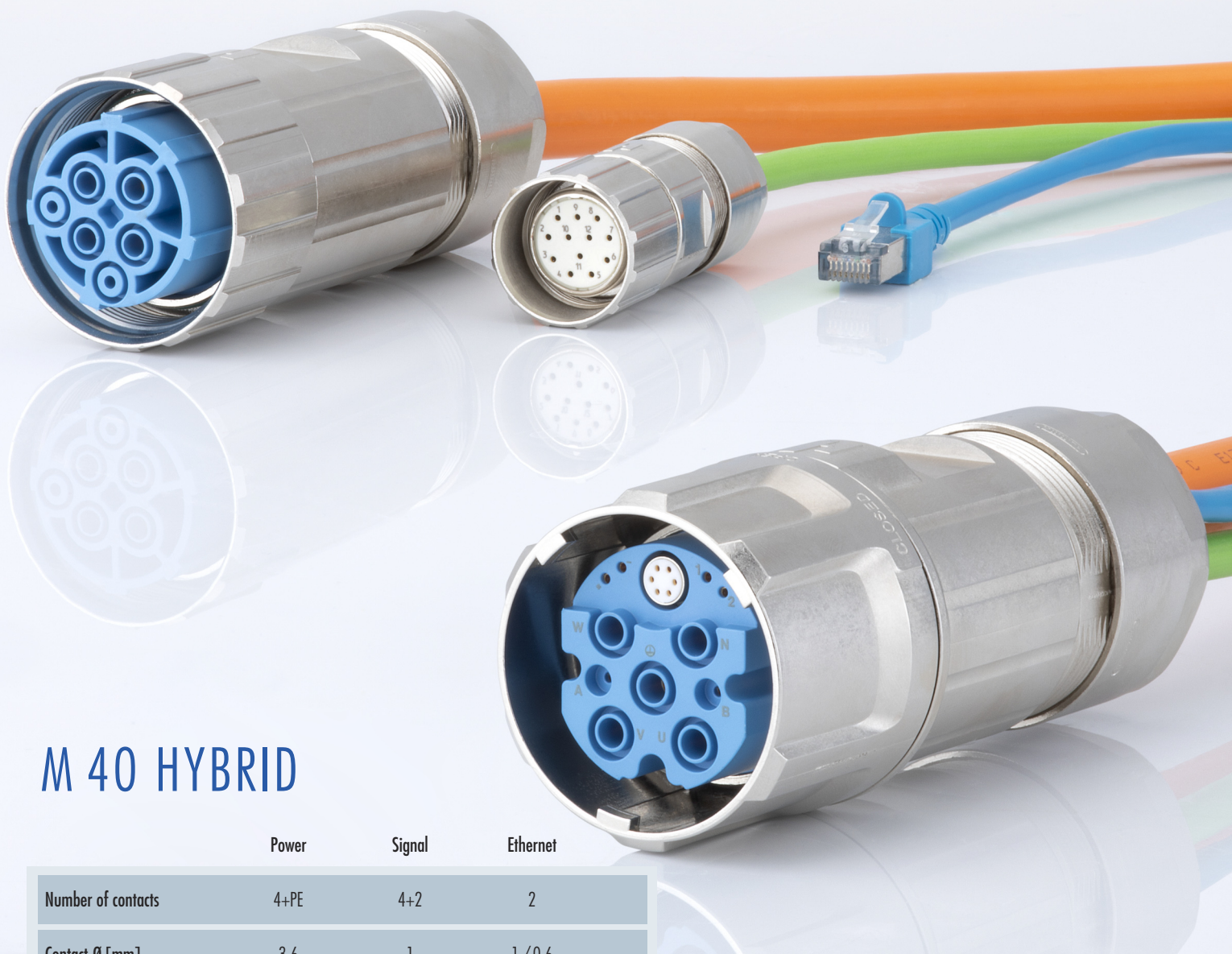
With the help of a special multi-insert, conventional cables can also be combined in a hybrid connector.

Photo: HUMMEL AG



A true powerhouse is the M 40 Hybrid, which can transmit data rates of up to 100 Mbit/s.

Photo: HUMMEL AG



M 40 HYBRID

	Power	Signal	Ethernet
Number of contacts	4+PE	4+2	2
Contact-Ø [mm]	3,6	1	1/0,6
AWG [mm ²]	2,5-16	0,14-1,5	0,14-1,5/0,05-0,34
Nominal current	15 A	7 A	2/1,2 A
Nominal voltage	630 AC / 850 DC	150/300 V~	30 V~
Test voltage	4000 V~	500/1500 V~	500 V~
Data	–	–	Cat5e

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