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Han® 3 A RJ45 Hybrid

Han® 3 A RJ45, Hybrid

General information

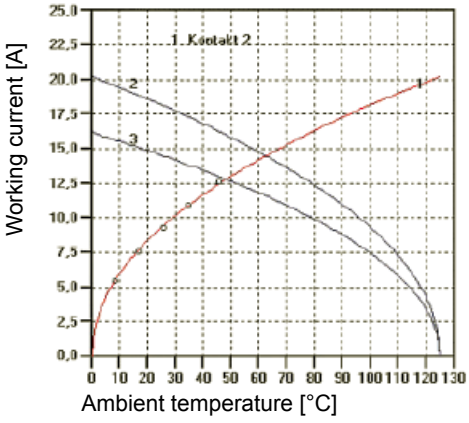
With the RJ Industrial Hybrid connector, HARTING has developed an interface solution that integrates the data lines and the power supply into one connector for hybrid Ethernet networks. The connector's geometry nevertheless maintains a clear separation between the data and the power contacts. This brings a significant reduction in the costs of installation and of field devices suitable for industrial application with hybrid cabling.

The panel feed-through is compatible with RJ45 connectors, which means that the standard patch cables for service and test purposes can be used. The data lines are connected at the rear via an RJ45 jack, while the power lines use a cage clamp terminal.

Optional the hybrid interface can be integrated in the device directly, thus preventing the use of rear side data lines.

The four power contacts of the hybrid module have also been designed with HARAX® rapid termination technology, allowing stranded cables of up to 1.5 mm² to be connected.

Current carrying capacity „Power contacts“



1 Temperature rise

2 Derating

3 Derating curve at I_{max} * 0.8 (DIN IEC 512)

Technical characteristics

Connector	
Degree of protection	IP65 / IP67
Mating interface	RJ45, 4-poles acc. to IEC 60 603-7 plus 4x power
Temperature range	-40 °C … +70 °C
Housing material	
Plastic version	UL 94 V0, black
Metal version	Zinc die-cast, grey
Mating cycles	min. 500
Mounting	field-assembly
Data Cat. 5, 4-poles	
Transmission performance	Category 5 / Class D up to 100 MHz acc. to ISO/IEC 11 801:2002, prEN 50 173-1
Transmission rate	10/100 Mbit/s
Cable diameter	
stranded	AWG 24/7 - AWG 22/7
solid	AWG 23/1 - AWG 22/1
Data Cat. 6, 8-poles	
Transmission performance	Category 6 / Class E_A up to 500 MHz acc. to ISO/IEC 11 801:2002, prEN 50 173-1
Transmission rate	10/100 Mbit/s / 1 Gbit/s
Cable diameter stranded / solid	AWG 27 - AWG 22
Both, data Cat. 5 and Cat. 6	
Shielding	fully shielded, 360° shielding contact
Cable outer diameter	10.0 mm – 11.0 mm
Power	
Number of contacts	4 for cable diameter 1.5 mm² stranded
Working voltage	48 V
Working current	16 A, see current carrying capacity
	UL approved (E102079)
Panel feed-through	
Mating interface extern:	RJ45 female acc. to IEC 60 603-7 plus 4 x power
Mating interface intern:	RJ45 female acc. to IEC 60 603-7 4 x power via cable cage clamp 1.5 mm²