

Pushing Performance

HARTING har-speed M12



har-speed M12: The innovative solution

With *har*-speed M12 **HARTING** bases the Ethernet network on a sustainable M12 foundation. The *har*-speed M12 differs significantly from today's M12 connectors for Ethernet because it is based on a 4-pair connector face with paired shielding. This allows *har*-speed M12 to be used for Ethernet transfer rates up to 10 Gigabit. The new **HARTING** *har*-speed M12 connector is, therefore, capable of complying with the high requirements of the transfer class E_A , respectively the Cat. 6_A . For the first time an M12 cabling system can be used for relevantly high data performance and permanent sustainability.

The *har*-speed M12 connectors can be optimally used for applications with bandwidths in machine and facility engineering, but also for the IP 67 infrastructure. The basis for the new development is the new PAS 61076-2-10x that defines a uniform connector face for 8-pole M12 connectors.



The new connector face complies with the following requirements:

- Maximum data rates through the configuration of the contacts in conformance with Ethernet technology.
- Minimal interaction and perfect shielding through paired shielding of the contacts.
- Fault proof connection through coding of the connector face. A connection error with other 8-pole M12's is impossible.

Overmolded versions in different lengths and a crimp connector for the local cabling are the first system components for a comprehensive cabling infrastructure solution by HARTING.

30 - 35 mm 12 mm 4 9		
 Remove cable sheath. Draw up the braid. Remove paired shielding. Remove plastic foil. Remove wire insulation. Crimp contacts. 	 7. Attach locknut and seal. 8. Pull braid apart. 9. Attach shield element (braid lies between seal and shield element). 	10. Place contact in insulator.
11. Lock cover on insulator and insert insulator into housing. Observe coding!	12. Remove excess braid.	13. Tighten locknut.

Cabling instructions

CHARACTERISTICS

- Cabling with crimp technology
- Compact, robust design
- Fully shielded
- Transfer class E_{A} for 1 and 10 Gigabit Ethernet
- AWG 28 to AWG 24
- Temperature range -40 °C to 85 °C
- Protection class IP 65 / IP 67

Identification	

har-speed M12 connector

Part number 21 03 881 5805

har-speed M12 PCB receptacle

CHARACTERISTICS

- Stable, industrial standard design
- Fully shielded

Identification

- Transfer class E_A for 1 and 10 Gigabit Ethernet
- Temperature range -40 °C to 70 °C
- Protection class IP 65 / IP 67



har-speed	M12	PCB	receptacle

21 03 381 2801

Part number

har-speed M12 system cable

CHARACTERISTICS

- Transfer class E_{A} for 1 and 10 Gigabit Ethernet
- Temperature range -40 °C to 70 °C

Part number	
21 03 483 1801	
21 03 483 1803	
21 03 483 1805	
21 03 483 1807	
21 03 483 1810	
	Part number 21 03 483 1801 21 03 483 1803 21 03 483 1805 21 03 483 1807 21 03 483 1810

har-speed M12 accessories

Identification	Part number	
Contacts	21 01 100 9014	
Locator	61 03 600 0065	
Crimping tool	09 99 000 0501	

Further products and information under www.HARKIS.HARTING.com



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www.HARTING.com