HARTING
Electronics
GmbH & Co. KG
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ENGLISH

HARTING RJ Industrial®
IP 67 Push Pull connector

Part number: 09 45 145 1100

Description

The IP 65/IP 67 Data version in a push pull housing is an entirely new development with innovative housing locking technology. The housing of the connector is locked tightly to the hood by means of a locking sleeve that surrounds it. The connector can be locked and unlocked using one hand and only minimal force. In spite of its high degree of protection, the housing is very compact, and is ideally suited for compact industrial applications.

The HARTING RJ Industrial® Push-Pull is thus the smallest IP 67 Industrial Ethernet connector based on RJ 45 with IDC connection technology in the world.

The Profibus user organization (PNO) has specified the connector as a solution for PROFInet®.

Recommended cable types

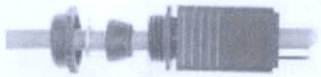
The HARTING RJ Industrial® -IP 67 Push Pull connector is optimised to be assembled with the following types of cable:

- HARTING RJ Industrial® Ethernet Shielded Twisted Pair Standard Cable, AWG 22 solid, according Category 5 cabling standard (ISO/IEC 11801:2002), part number 09 45 600 0100
- HARTING RJ Industrial® Ethernet Shielded Twisted Pair Trailing Cable, AWG 22/7 stranded, according Category 5 cabling standard (ISO/IEC 11801:2002), part number 09 45 600 0101

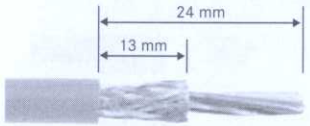
Assembly instruction

Only a few steps are necessary in order to quickly and reliably attach an Industrial Ethernet cable to a HARTING RJ Industrial® connector using IDC technology.

1. Push the cable gland and housing over the cable sheath.



2. Strip the sheath to a length of 24 mm and the shielding screen to a length of 13 mm.



3. Prepare the individual wires for insertion into the splicing element according to the colour code.

4. Insert the wires into the splicing element up to the end of the wire chambers.

5. Push the splicing element onto the RJ 45 data module and engage.

6. Put the splicing element and the RJ 45 data module into the IDC assembly tool.

7. Press data module and element together with the aid of the IDC assembly tool.

8. Remove the terminated data module from the assembly tool.

9. Put on the upper shielding shell and press it over the cable screen.

10. Put on lower shielding shell and lock it with the upper shell with an audible "click".

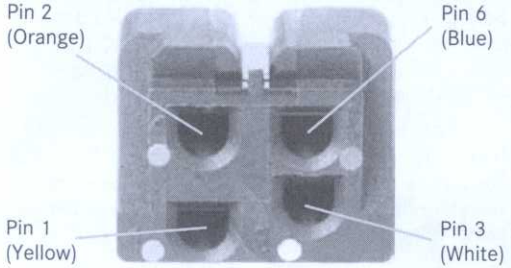
11. Push housing over the installed data module and lock it with an audible "click".

12. Tighten cable gland.

Pin assignment

Pin assignment according to PROFInet®:

Signal	Function	Wire colour	RJ 45 pin number
TD +	Transmission Data +	Yellow	1
TD -	Transmission Data -	Orange	2
RD +	Receiver Data +	White	3
RD -	Receiver Data -	Blue	6



Technical data

Transmission characteristics according Category 5 ISO/IEC 11 801:2002 and EN 50173-1

Protection level:	IP 65/IP 67
Mating face:	RJ 45 according IEC 60603-7
Wire gauge data[1]:	AWG 22 - 24 stranded AWG 22 -23 solid
Wire insulation:	max. 1.6 mm Ø
Temperature range:	-40 °C ... +70 °C
Cable diameter:	6.5 mm - 7.2 mm
Mating cycles:	min. 750
Housing material:	Thermoplastic, black

[1] Please refer to technical data sheet

Version 1.2 - 03/2004