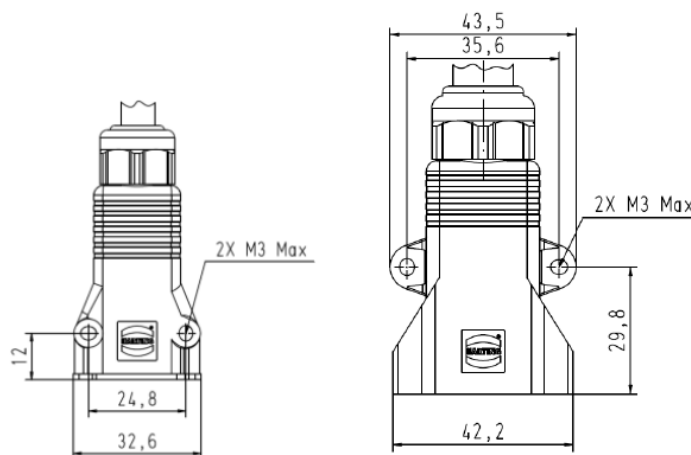|		
Business Unit:	Electronics	**PI/ *012***
Product range:	HARTING PushPull	Date: 2012-11-15
Title:	**New PushPull V4 + V14 Cable Hoods**	Page 1/6

Dear Customer,

We are pleased to announce the availability of the new PushPull V4 + V14 cable hoods. Our new PushPull cable-to-cable housings provide a flexible cabling for transmission of energy, data and signal with the IP 65/67 protection. In addition, our new cable hoods offer decisive advantages for device connection and the installation of switches cabinets and machines for machine and plant construction.

Features of the new PushPull cable hoods:

- Can be combined with device side inserts for Power, Data and Signal (see appendix section).
- Each set is delivered with the cable gland and two fixing screws.
- All cable hoods can be fixed with 2 x M3 screws.
- Fixed holes to easily adjust the mounting position.
- Compatible with both, field attachable connectors and pre-assembled cable systems.

For the transmission of the Industrial Ethernet, signals and power supply, cable-to-cable housings with the appropriate inserts can be fitted for the HARTING PushPull family variant 4 and Han® PushPull family variant 14. A bandwidth of up to 10 Gigabits can be achieved with a reliable AWG 22-27 conductor cross section for the transmission of Industrial Ethernet. For power supply, using 5 contacts, up to 690 V and 16 A can be carried with a reliable conductor cross section measuring up to 2.5 mm². Contact inserts, tool-free Insulation Displacement Connections, Han-Quick Lock® connection technology and crimp connection technology are also available as alternatives in terms of connection technology.

For more detailed information, part numbers and availability, go to the appendix section of this document.

Please don't hesitate to contact our technical support if you have any questions.

Technical Support E-mail: TechSupportUS@HARTING.com

Technical Support Phone Number: **866-278-0306** (Select option 3 for technical support).

Appendix: **Possible combinations of the hood with inserts for power – data – signals.**

1.1 For HARTING PushPull (V4) Data and Signal inserts

Usable receptacle housing	Functional inserts		Hood type
HARTING PushPull (V4) Compact receptacle housing for HIFF inserts 09 45 545 0028	**Data – RJ45 cable jacks**		
	With field assembly IDC termination		
		available Q3/2012	
	1/10Gbit Ethernet, Cat.6, 8-pole, AWG 24-28: 1/10Gbit Ethernet, Cat.6, 8-pole, AWG 22-24: 10/100Mbit Ethernet, Cat.5, 4-pole, AWG 22-24:	09 45 545 1561 09 45 545 1562 09 45 545 1120	HARTING PushPull (V4) cable to cable housing for cable diameter 6.6 – 9.5 mm 09 45 345 0000
	With preLink press-in IDC termination		
	1/10Gbit Ethernet, Cat.6, 8-pole, AWG 22/23: *(needed preLink assembly tool – 20 82 000 9901)*	20 82 001 0001	**or**
	Signal – 100 V / 5 A, 10-pole		
		available Q4/2012	
	Signal insert without D-Sub crimp contacts: Usable D-Sub crimp contacts (male) - For AWG 24-20; 0,25-0,56 mm²: - For AWG 22-18; 0,33-0,82 mm²: [1] To be used with crimp tool 09 99 000 0175 [2] To be used with crimp tool 09 99 000 0501 Suitable locator: 61 03 600 0531	09 45 545 9010 09 67 000 8178[1] 09 67 000 3576[2]	HARTING PushPull bulkhead housing 09 45 345 0001

1.2 For HARTING PushPull (V4) Power inserts

Usable receptacle housing	Functional inserts		Hood type
  HARTING PushPull (V4) Compact receptacle housing with fixing clips 09 45 545 0029	**Power – 48 V / 12 A, 4-pole**		 HARTING PushPull (V4) cable to cable housing for cable diameter 6.6 – 9.5 mm 09 45 345 0000
	Power female insert without crimp contacts: Usable PushPull Power crimp contacts (female) - For 0.75 mm² (AWG 20 - 18) - For 1.5 mm² (AWG 16 - 14): - For 2.5 mm² (AWG 12): [1] To be used with crimp tool 09 46 800 0000	09 46 500 4401 09 46 500 0404[1] 09 46 500 0402[1] 09 46 500 0406[1]	
	Power – 250 V / 16 A, 3-pole		**or**
	Power female insert without crimp contacts: Usable PushPull Power crimp contacts (female) - For 0.75 mm² (AWG 20 - 18) - For 1.5 mm² (AWG 16 - 14): - For 2.5 mm² (AWG 12): [1] To be used with crimp tool 09 46 800 0000	09 46 500 3401 09 46 500 0404[1] 09 46 500 0402[1] 09 46 500 0406[1]	HARTING PushPull bulkhead housing 09 45 345 0001

2.1 For Han® PushPull (V14) Data and Signal inserts

Usable receptacle housing	Functional inserts	Hood type
Han® PushPull (V14) receptacle housing for HIFF inserts 09 35 012 0331	**Data – RJ45 cable jacks** **With field assembly IDC termination** *available Q3/2012* 1/10Gbit Ethernet, Cat.6, 8-pole, AWG 24-28: 09 45 545 1561 1/10Gbit Ethernet, Cat.6, 8-pole, AWG 22-24: 09 45 545 1562 10/100Mbit Ethernet, Cat.5, 4-pole, AWG 22-24: 09 45 545 1120 **With preLink press-in IDC termination** 1/10Gbit Ethernet, Cat.6, 8-pole, AWG 22/23: 20 82 001 0001 *(needed preLink assembly tool – 20 82 000 9901)* **Signal – 100 V / 5 A, 10-pole** *available Q4/2012* Signal insert without D-Sub crimp contacts: 09 45 545 9010 Usable D-Sub crimp contacts (male) - For AWG 24-20; 0.25-0.56 mm²: 09 67 000 8178 [1] - For AWG 22-18; 0.33-0.82 mm²: 09 67 000 3576 [2] [1] To be used with crimp tool 09 99 000 0175 [2] To be used with crimp tool 09 99 000 0501 Suitable locator: 61 03 600 0531	Han® PushPull (V14) cable to cable housing, for cable diameter 6.6 – 9.5 mm 09 35 002 0431 **or** Han® PushPull (V14) cable to cable housing, for cable diameter 9 – 13 mm 09 35 002 0433

2.2 Han® PushPull (V14) Power inserts

Usable receptacle housing	Functional inserts		Hood type
Power – 690 V / 16 A, 5-pole			
	Power female insert with Han-Quick Lock® termination		Han® PushPull (V14) cable to cable housing, for cable diameter 6.6 – 9.5 mm
	- For 0.5 … 2.5 mm²	09 35 232 0331	
	- For 0.25 … 1.5 mm²	09 35 234 0331	09 35 002 0431
	Power female insert without Han® P crimp contacts:	09 35 231 0331	**or**
	Usable Han® P crimp contacts (male)		
	- For 0.5 mm²	09 35 000 6103[1]	
	- For 0.75 mm²	09 35 000 6104[1]	
	- For 1.0 mm²	09 35 000 6105[1]	
	- For 1.5 mm²	09 35 000 6106[1]	
	- For 2.5 mm²	09 35 000 6107[1]	
	[1] Usable crimp tool	09 99 000 0001	
	Locator Han P® for crimping tool 09 99 000 0001	09 99 000 0329	
			Han® PushPull (V14) cable to cable housing, for cable diameter 9 – 13 mm
	Coding pins set for Han® PushPull Power, 4 times coding without contact loss	09 35 000 6190	09 35 002 0433