



Pushing Performance

# HARTING PushPull Selection Guide



People | Power | Partnership



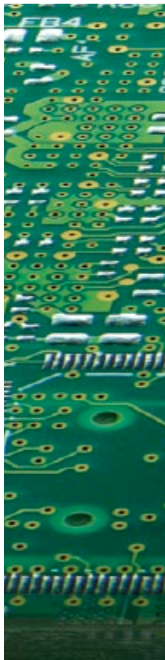
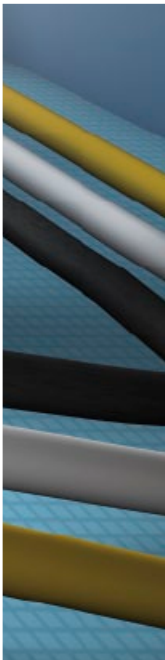
# PushPull Device Connectivity for Signal – Data – Power

**HARTING** Connectivity & Networks generates solutions throughout the triad of Installation Technology, Device Connectivity, and Automation IT for all automation lifelines - namely data, signals and power. In line with this strategic course, the **HARTING** PushPull equipment interfaces provide universal solutions for specific user applications. The range of available contact inserts extends from solutions for 1/10 Gigabit Ethernet through to 400 V / 16 A power supply applications.

A consistent, ongoing innovation process ensures that users of **HARTING**'s continuously expanding PushPull product range always benefit from the latest interface technology - combining the life lines of devices in IP 65/67 housings with simple and reliable operation.

This Selection Guide supports you in choosing the ideal solution for your specific application from one the numerous interface combinations available, while keeping the focus set squarely on the specific lifeline to be transferred. Based on the interface function required, you select the suitable contact insert for the PCB and a corresponding bulkhead housing, and complete the connection by opting for the appropriate connectors, system cables, and accessories. The housing's size depends on the contact insert you selected, while environmental conditions determine the housing material.

Drawing on these strengths, PushPull is an ideal solution for IP 65/67 Device Connectivity featuring convenient handling and universal functionality for all lifelines.

DEVICE SIDE		CABLE SIDE	
HOUSING MATERIALS	CONTACT INSERT	CONTACT INSERT	HOUSING MATERIALS
 <ul style="list-style-type: none"> <li>• METAL</li> <li>• PLASTIC</li> </ul>	<p><b>DATA</b></p> <ul style="list-style-type: none"> <li>RJ45</li> <li>LC duplex</li> <li>SCRJ</li> <li>USB</li> </ul>	 <ul style="list-style-type: none"> <li>• METAL</li> <li>• PLASTIC</li> </ul>	
	<p><b>SIGNAL</b></p> <ul style="list-style-type: none"> <li>Hybrid 48 V / 5 A + 100 MBit Ethernet</li> </ul>		
	<p><b>POWER</b></p> <ul style="list-style-type: none"> <li>48 V / 5 A 4 poles</li> <li>250 V / 16 A 3 poles</li> <li>400/690 V / 16 A 5 poles</li> <li>24 V / 16 A 5 poles</li> </ul>		

DIRECT DEVICE INTEGRATION ON PCB			
	HARTING PushPull EasyInstall bulkhead housing for device integration	Metal, angled, without fixing clip	09 45 595 0030
		Plastic, angled, without fixing clip	09 45 545 0030
		Plastic, angled, with fixing clip	09 45 545 0031
	HARTING PushPull Compact bulkhead housing for device integration	Plastic, angled, without fixing clip	09 45 545 0023/... 33
		Plastic, angled, with fixing clip	09 45 545 0021/... 29
		Plastic, straight, without fixing clip	09 45 545 0027
	HARTING PushPull RJ45 jack, cat. 5	angled SMD 90° angled SMD 90° T&R packaging angled 90°, THT straight 180°, THT	09 45 551 1100 09 45 551 1110 09 45 551 1102 09 45 551 1103

DEVICE INTEGRATION WITH PANEL FEED THROUGH			
	HARTING PushPull RJ45 panel feed through, metal	EasyInstall, cat. 5	09 45 295 1130
	HARTING PushPull RJ45 panel feed through, plastic	EasyInstall, cat. 5	09 45 245 1130
		EasyInstall, cat. 6	09 45 245 1590
		Compact, cat. 5	09 45 245 1102
		Compact, cat. 6	09 45 245 1560

CONNECTOR CABLE SIDE			
	HARTING PushPull RJ45 connector with IDC- or piercing termination, metal	4 poles, cat. 5 IDC	09 45 195 1100
		8 poles, cat. 6	09 45 195 1500
		8 poles, cat. 6	09 45 195 1510
		8 poles, cat. 6 IDC	09 45 195 1560
	HARTING PushPull RJ45 connector with IDC- or piercing termination, plastic	4 poles, cat. 5 IDC	09 45 145 1100
		8 poles, cat. 6	09 45 145 1500
		8 poles, cat. 6	09 45 145 1510
		8 poles, cat. 6 IDC	09 45 145 1560

SYSTEM CABLE TYPE B, RJ45, 4 POLES			
	HARTING PushPull system cable RJ45, 4 poles, cat. 5, green, overmoulded, PROFINET cable type B 4x AWG 22/7 stranded (other cable types and length on request)	1.5 m	09 45 745 1164
		3.0 m	09 45 745 1166
		5.0 m	09 45 745 1168
		10.0 m	09 45 745 1173
		20.0 m	09 45 745 1175




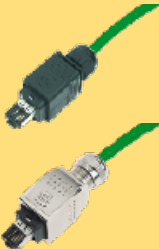
SYSTEM CABLE PUR, RJ45, 8 POLES			
	HARTING PushPull system cable RJ45, 8 poles, cat. 6, yellow, PUR cable 8x AWG 26/7 stranded (other cable types and length on request)	1.5 m	09 45 744 1523
		3.0 m	09 45 744 1525
		5.0 m	09 45 744 1527
		10.0 m	09 45 744 1532

OUTLETS			
	HARTING PushPull RJ45 outlet, cat. 6, 2 times	Plastic, black Plastic, white	09 45 845 1500 09 45 845 1501


DIRECT DEVICE INTEGRATION ON PCB			
	Han® PushPull RJ45 bulkhead housing for device integration	Metal	09 35 002 0301
		Plastic	09 35 002 0321
	Han® PushPull RJ45 jack insert for PCB mounting, 8 poles, shielded, cat. 6, with straight and angled solder pins	angled 90° straight 180°	09 35 002 2101 09 35 002 2102

DEVICE INTEGRATION WITH PANEL FEED THROUGH			
	Han® PushPull RJ45, panel feed through with RJ45 contact insert, 8 poles	Metal, RJ45 straight, cat. 5	09 35 221 0311
		Metal, RJ45 straight, cat. 6	09 35 225 0311
		Metal, RJ45 angled, cat. 6	09 35 223 0311
		Metal, RJ45 47°, cat. 5	09 35 224 0311
		Metal, flat cable, cat. 5	09 35 222 0311
		Metal, solder termination, cat. 5	09 35 226 0311
	Han® PushPull RJ45, panel feed through with RJ45 contact insert, 8 poles	Plastic, RJ45 straight, cat. 5	09 35 221 0331
		Plastic, RJ45 angled, cat. 5	09 35 223 0331
		Plastic, RJ45 47°, cat. 5	09 35 224 0331
		Plastic, flat cable, cat. 5	09 35 222 0331
		Plastic, solder termination, cat. 5	09 35 226 0331



V14







CONNECTOR CABLE SIDE				
	Han® PushPull RJ45, connector, with IDC- or piercing termination	Metal, RJ45 4 poles, cat. 5 IDC Metal, RJ45 8 poles, cat. 6 Metal, RJ45 8 poles, cat. 6 Metal, RJ45 8 poles, cat. 6 IDC Metal, angled, cable exit bottom, RJ45 8 poles, cat. 6 IDC Metal, angled, cable exit top, RJ45 8 poles, cat. 6 IDC		09 35 221 040 1 09 35 223 040 1 09 35 224 040 1 09 35 225 040 1 09 35 225 040 2 09 35 225 040 3
	Han® PushPull RJ45, connector, with IDC- or piercing termination	Plastic, RJ45 4 poles, 6.5 - 9.5 mm, IDC Plastic, RJ45 4 poles, 5 - 8 mm, IDC Plastic, RJ45 8 poles, cat. 6 Plastic, RJ45 8 poles, cat. 6 Plastic, RJ45 8 poles, cat. 6 IDC		09 35 221 042 1 09 35 222 042 1 09 35 223 042 1 09 35 224 042 1 09 35 225 042 1
ACCESSORIES				
	Han® PushPull RJ45, gender changer, 8 poles, cat. 6, class E	Gender changer RJ45		09 35 221 050 1
SYSTEM CABLE				
	Han® PushPull system cable RJ45, 4 poles type A, round cable, green, copper, shielded, outer jacket PVC, cat. 5, 10/100 Mbit/s (other cable types and length on request)	Length	Metal	Plastic
		1.5 m	09 47 565 6003	09 47 555 5003
		3.0 m	09 47 565 6005	09 47 555 5005
	Han® PushPull system cable RJ45, 4 poles type B, round cable, green, copper, shielded, outer jacket PVC, cat. 5, 10/100 Mbit/s (other cable types and length on request)	5.0 m	09 47 565 6007	09 47 555 5007
		10.0 m	09 47 565 6012	09 47 555 5012
		20.0 m	09 47 565 6014	09 47 555 5014
	Han® PushPull system cable RJ45, 4 poles type C, round cable, green, copper, shielded, outer jacket PUR, cat. 5, 10/100 Mbit/s (other cable types and length on request)	1.5 m	09 47 565 6033	09 47 555 5033
		3.0 m	09 47 565 6035	09 47 555 5035
		5.0 m	09 47 565 6037	09 47 555 5037
	10.0 m	09 47 565 6042	09 47 555 5042	
	20.0 m	09 47 565 6044	09 47 555 5044	
	1.5 m	09 47 565 6063	09 47 555 5063	
	3.0 m	09 47 565 6065	09 47 555 5065	
	5.0 m	09 47 565 6067	09 47 555 5067	
	10.0 m	09 47 565 6072	09 47 555 5072	
	20.0 m	09 47 565 6074	09 47 555 5074	

V4  
V14

TOOLING			
	HARTING RJ Industrial® stripping tool	Stripping for Ethernet cable inclusive blade cassette	09 45 800 0000
		Blade cassette	09 45 800 000 1
	HARTING RJ Industrial® universal stripping tool		09 45 800 0002
	HARTING RJ Industrial® cable cutter		09 45 800 0004
	HARTING RJ Industrial® side cutter		09 45 800 0005
HARTING RJ Industrial® Gigalink mounting tool	for HARTING RJ Industrial® Gigalink connectors	09 45 800 0500	

V4




DEVICE INTEGRATION WITH PANEL FEED THROUGH			
	HARTING PushPull LC duplex panel feed through	Metal, multimode GOF EasyInstall Metal, singlemode GOF EasyInstall Plastic, multimode GOF EasyInstall Plastic, singlemode GOF EasyInstall Plastic, multimode GOF Compact Plastic, singlemode GOF Compact	09 57 468 0500 000 09 57 468 0501 000 09 57 441 0500 000 09 57 441 0501 000 09 57 442 0502 001 09 57 442 0503 001
CONNECTOR CABLE SIDE			
	HARTING PushPull metal LC duplex cable connector	Metal, multimode GOF Metal, singlemode GOF Plastic, multimode GOF Plastic, singlemode GOF	09 57 409 0500 000 09 57 409 0501 000 09 57 402 0500 000 09 57 402 0501 000

DIRECT DEVICE INTEGRATION ON PCB			
	Han® PushPull SCRJ bulkhead housing for device integration	Metal Plastic	09 35 002 0303 09 35 002 0323
DEVICE INTEGRATION WITH PANEL FEED THROUGH			
	Han® PushPull SCRJ panel feed through, duplex, for multimode-glass, HCS- and polymer fibres	Plastic, optical panel feed through	09 35 242 0333
	Han® PushPull SCRJ panel feed through, duplex, for multimode-glass, HCS- and polymer fibres	Metal, optical panel feed through	09 35 242 0313
CONNECTOR CABLE SIDE			
	Han® PushPull SCRJ connector, duplex, for multimode-glass, HCS- and polymer fibres	Metal, inclusive 2x SC POF contacts Metal, order SC contacts separately	09 35 241 0401 09 35 241 0402
	Han® PushPull SCRJ connector, duplex, for multimode-glass, HCS- and polymer fibres	Plastic, inclusive 2x SC POF contacts Plastic, order SC contacts separately	09 35 241 0421 09 35 241 0422
	IP 20 SCRJ POF connector, duplex, plastic	inclusive 2x SC POF contacts	09 35 002 4002





V14






V14

TOOLING			
	Mounting case POF, cutting without polishing	for field termination of SC-POF contacts	on request
	Mounting case POF, cutting with polishing	without optical measurement device with optical measurement device	20 99 000 3016 20 99 000 3013
	Polishing disc (disc wheel)	for POF cable 2.2	20 99 000 1093
	Abrasive and polishing paper	for POF grain size 1000	20 80 001 9911
SYSTEM CABLE			
	IP 20 cable assembly, round cable, green, outer jacket PUR, both sides assembled with SCRJ IP 20 connector (other cable types and length on request)	1.0 m 2.0 m 5.0 m 10.0 m 20.0 m	33 02 211 0010 001 33 02 211 0020 001 33 02 211 0050 001 33 02 211 0100 001 33 02 211 0200 001
	Cable assembly, round cable, green, outer jacket PUR, both sides IP 65 / IP 67, plastic version (other cable types and length on request)	1.0 m 2.0 m 5.0 m 10.0 m 20.0 m	33 53 211 0010 001 33 53 211 0020 001 33 53 211 0050 001 33 53 211 0100 001 33 53 211 0200 001
	Cable assembly, round cable, green, outer jacket PUR, both sides IP 65 / IP 67, metal version (other cable types and length on request)	1.0 m 2.0 m 5.0 m 10.0 m 20.0 m	33 53 211 0010 002 33 53 211 0020 002 33 53 211 0050 002 33 53 211 0100 002 33 53 211 0200 002



DIRECT DEVICE INTEGRATION ON PCB			
	HARTING PushPull EasyInstall bulkhead housing for device integration	Plastic, angled, without fixing clip Plastic, angled, with fixing clip	09 45 545 0030 09 45 545 0031
	HARTING PushPull Compact bulkhead housing for device integration	Plastic, angled, without fixing clip Plastic, angled, with fixing clip	09 45 545 0023/... 33 09 45 545 0021/... 29
	HARTING PushPull USB solder jack, angled 90°, THT	USB 2.0 type B	09 45 541 1900

V4



DATA (USB)	V4		HARTING PushPull USB adapter PCB, USB-jack with pin header	USB 2.0 type A USB 3.0 type A	09 45 541 1902 09 45 541 1905	
		DEVICE INTEGRATION WITH PANEL FEED THROUGH				
			HARTING PushPull USB Compact, panel feed through, jack to jack	USB 2.0 type A USB 3.0 type A	09 45 245 1902 09 45 245 1904	
			HARTING PushPull USB EasyInstall, panel feed through, jack to jack	USB 2.0 type A USB 3.0 type A	09 45 245 1903 09 45 245 1905	
		SYSTEM CABLE				
	HARTING PushPull USB shielded system cable (other cable types and length on request)	USB 2.0 type B, double sided PushPull 1.5 m USB 2.0 type A, double sided PushPull 1.5 m USB 3.0 type A, double sided PushPull 1.5 m	09 45 145 3902 09 45 145 1902 09 45 145 2902			
		USB 2.0 type B, PushPull - IP 20 1.5 m USB 2.0 type A, PushPull - IP 20 1.5 m USB 3.0 type A, PushPull - IP 20 1.5 m	09 45 145 3912 09 45 145 1912 09 45 145 2912			


SIGNAL (HYBRID – DATA + POWER)	V4	DIRECT DEVICE INTEGRATION ON PCB			
			HARTING PushPull Hybrid Compact bulkhead housing for device integration	Plastic, straight Plastic, angled	09 45 545 1320 09 45 545 1325
			HARTING PushPull Hybrid shielded jack insert, THT, power: 3 poles, 48 V / 5 A; data: 4 poles cat. 5 for 10/100 Mbit Ethernet	straight 180° angled 90°	09 45 545 1300 09 45 545 1305
		DEVICE INTEGRATION WITH PANEL FEED THROUGH			
			HARTING PushPull Hybrid shielded jack insert, power: 3 poles terminal block 0.08 – 2.5 mm², 48 V / 5 A; data: RJ45 jack 8 poles cat. 5 for 10/100 Mbit Ethernet	Plastic	09 45 245 1320
		CONNECTOR CABLE SIDE			
			HARTING PushPull Hybrid shielded connector, power: 3 poles, 48 V / 5 A; data: 4 poles cat. 5 for 10/100 Mbit Ethernet	Plastic, crimp contacts	09 45 145 1300
		SYSTEM CABLE			
			HARTING PushPull Hybrid shielded system cable, power: 3 poles, 48 V / 5 A; data: 4 poles cat. 5 for 10/100 Mbit Ethernet	System cable double sided PushPull 0.5 m System cable double sided PushPull 1.0 m System cable double sided PushPull 2.0 m System cable double sided PushPull 3.0 m System cable double sided PushPull 5.0 m System cable double sided PushPull 10.0 m System cable double sided PushPull 20.0 m	09 47 616 1005 09 47 616 1010 09 47 616 1020 09 47 616 1030 09 47 616 1050 09 47 616 1100 09 47 616 1200
			HARTING PushPull Hybrid shielded system cable, power: 3 poles, 48 V / 5 A; data: 4 poles cat. 5 for 10/100 Mbit Ethernet	System cable single sided PushPull 0.5 m System cable single sided PushPull 1.0 m System cable single sided PushPull 2.0 m System cable single sided PushPull 3.0 m System cable single sided PushPull 5.0 m System cable single sided PushPull 10.0 m System cable single sided PushPull 20.0 m	09 47 610 0005 09 47 610 0010 09 47 610 0020 09 47 610 0030 09 47 610 0050 09 47 610 0100 09 47 610 0200
	HARTING PushPull Hybrid cable, FRNC outer jacket, cable design: data: shielded twisted pair, 4x AWG 26/7, cat. 5 for 10/100 Mbit + Power 3x AWG 20/7, outer diameter 7.0 ± 0.4 mm	Hybrid cable ring 20.0 m Hybrid cable ring 50.0 m Hybrid cable ring 100.0 m Hybrid cable reel 500.0 m	09 45 600 0331 09 45 600 0341 09 45 600 0301 09 45 600 0321		


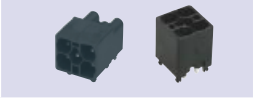









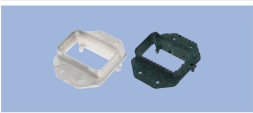
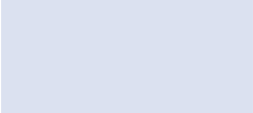
SIGNAL (HYBRID)	V4	TOOLING			
			HARTING PushPull Hybrid crimping tool	for data contacts for power contacts	09 99 000 0596 09 99 000 0175
			HARTING PushPull Hybrid insertion and removal tool	for data contacts for power contacts	09 99 000 0513 09 99 000 0171

POWER (48 V / 5 A)	V4	DIRECT DEVICE INTEGRATION ON PCB			
			HARTING PushPull EasyInstall bulkhead housing for device integration	Metal, angled, without fixing clip Plastic, angled, without fixing clip Plastic, angled, with fixing clip	09 45 595 0030 09 45 545 0030 09 45 545 0031
			HARTING PushPull Compact bulkhead housing for device integration	Plastic, angled, without fixing clip Plastic, angled, with fixing clip	09 45 545 0023/... 33 09 45 545 0021/... 29
			HARTING PushPull jack insert for PCB mounting, 4 poles, 48 V / 12 A	angled	09 46 500 4400
		DEVICE INTEGRATION WITH PANEL FEED THROUGH			
			HARTING PushPull Power panel feed through, 4 poles 48 V / 12 A, metal	EasyInstall with solder termination EasyInstall with crimp contacts AWG 16 - 14 EasyInstall with spring-cage connection	09 46 295 4030 09 46 295 4430 09 46 295 4031
			HARTING PushPull Power panel feed through, 4 poles 48 V / 12 A, plastic	EasyInstall with solder termination Compact with solder termination EasyInstall with crimp contacts AWG 16 - 14 Compact with crimp contacts AWG 16 - 14 EasyInstall with spring-cage connection Compact with spring-cage connection	09 46 245 4030 09 46 245 4400 09 46 245 4430 09 46 245 4400 09 46 245 4031 09 46 245 4001
		CONNECTOR CABLE SIDE			
			HARTING PushPull Power connector, 4 poles 48 V / 12 A	Metal, with crimp contacts AWG 16 - 14	09 46 195 4400
			HARTING PushPull Power connector, 4 poles 48 V / 12 A	Plastic, with crimp contacts AWG 16 - 14	09 46 145 4400




POWER (250 V / 16 A)	V4	DEVICE INTEGRATION WITH PANEL FEED THROUGH		
			HARTING PushPull Power panel feed through, 3 poles 250 V / 16 A, plastic	EasyInstall with crimp contacts AWG 16 - 14 Compact with crimp contacts AWG 16 - 14
		CONNECTOR CABLE SIDE		
	HARTING PushPull Power connector, 3 poles 250 V / 16 A	Plastic, with crimp contacts AWG 16 - 14	09 46 145 3410	


POWER (ACCESSORIES)	V4	ACCESSORIES			
			HARTING PushPull Power female crimp contacts for HARTING PushPull panel feed through	for 0.75 mm <sup>2</sup> (AWG 20 - 18) for 1.0 - 1.5 mm <sup>2</sup> (AWG 16 - 14) for 2.5 mm <sup>2</sup> (AWG 12)	09 46 500 0404 09 46 500 0402 09 46 500 0406
			HARTING PushPull Power male crimp contacts for HARTING PushPull connector	for 0.75 mm <sup>2</sup> (AWG 20 - 18) for 1.0 - 1.5 mm <sup>2</sup> (AWG 16 - 14) for 2.5 mm <sup>2</sup> (AWG 12)	09 46 500 0403 09 46 500 0401 09 46 500 0405


POWER (400/690 V / 16 A)	V14	DIRECT DEVICE INTEGRATION ON PCB			
			Han® PushPull Power bulkhead housing for device integration	Metal Plastic	09 35 002 0303 09 35 002 0323
			Han® PushPull Power, jack insert for PCB mounting, 5 poles, 16 A, 400/480 V, with straight and angled solder pins	angled 90° straight 180°	09 35 002 3003 09 35 002 3004
		DEVICE INTEGRATION WITH PANEL FEED THROUGH			
			Han® PushPull Power, panel feed through with PCB, 5 poles, 16 A, 400 V	Metal, solder termination Plastic, solder termination	09 35 233 0313 09 35 233 0333
			Han® PushPull Power, panel feed through, 5 poles, 16 A, 690 V, with crimp or Quick Lock®-termination, 0.5 - 2.5 mm <sup>2</sup> , touch-proof, 4 times codeable, order Han® P male crimp contacts separately	Metal, crimp termination Metal, Quick Lock® termination Plastic, crimp termination Plastic, Quick Lock® termination	09 35 231 0313 09 35 232 0313 09 35 231 0333 09 35 232 0333
		CONNECTOR CABLE SIDE			
			Han® PushPull Power, connector, 5 poles, 16 A, 690 V, with crimp or Quick Lock®-termination, 0.5 - 2.5 mm <sup>2</sup> , cable diameter 4-11 mm (metal), 6.5-9.5 / 9-13 mm (plastic), touch-proof, 4 times codeable, order Han® P female crimp contacts separately	Metal, crimp termination Metal, Quick Lock® termination	09 35 231 0401 09 35 232 0401
				Plastic, crimp termination, 9 - 13 mm Plastic, Quick Lock® termination, 6.5 - 9.5 mm Plastic, Quick Lock® termination, 9 - 13 mm	09 35 231 0423 09 35 232 0421 09 35 232 0423
		ACCESSORIES			
			Han® PushPull Power coding key set, 4 times codeable, set includes 10 pieces for device and cable side each	Coding keys	09 35 000 6190
			Han® P male crimp contacts for Han® PushPull Power panel feed through	for 0.5 mm <sup>2</sup> for 0.75 mm <sup>2</sup> for 1.0 mm <sup>2</sup> for 1.5 mm <sup>2</sup> for 2.5 mm <sup>2</sup>	09 35 000 6103 09 35 000 6104 09 35 000 6105 09 35 000 6106 09 35 000 6107
			Han® P female crimp contacts for Han® PushPull Power connector	for 0.5 mm <sup>2</sup> for 0.75 mm <sup>2</sup> for 1.0 mm <sup>2</sup> for 1.5 mm <sup>2</sup> for 2.5 mm <sup>2</sup>	09 35 000 6203 09 35 000 6204 09 35 000 6205 09 35 000 6206 09 35 000 6207



POWER L (24 V / 16 A)	V14	CONNECTOR CABLE SIDE		
			Han® PushPull Power L bulkhead housing for device integration	Metal Plastic
	Han® PushPull Power L, jack insert for PCB mounting, 5 poles, 16 A, 24 V, with straight and angled solder pins	angled 90° straight 180°	09 35 004 3003 09 35 004 3004	





POWER L (24 V / 16 A)	DEVICE INTEGRATION WITH PANEL FEED THROUGH			
		Han® PushPull Power L, panel feed through, 5 poles, 16 A, 24 V, spring-cage connection, 0.75 – 2.5 mm <sup>2</sup> , touch-proof	Spring-cage connection, metal Spring-cage connection, plastic	09 35 431 0311 09 35 431 0331
	CONNECTOR CABLE SIDE			
		Han® PushPull Power L, connector, 5 poles, 16 A, 24 V, spring-cage connection, 0.75 – 2.5 mm <sup>2</sup> , cable diameter 9-13 mm, touch-proof	Spring-cage connection, metal Spring-cage connection, plastic	09 35 431 0401 09 35 431 0421
	ACCESSORIES			
		Han® PushPull Power L, gender changer, 5 poles, 16 A, 24 V	Gender changer Power L	09 35 431 0501
		Han® PushPull Power L, protection cover for bulkhead housing	Protection cover IP 65 / IP 67	09 35 004 5401

POWER (ACCESSORIES)	TOOLING V14			
		BUCHANAN crimping tool	Wire gauge: 0.14 – 2.5 mm <sup>2</sup>	09 99 000 0001
		Locator Han P®	for BUCHANAN crimping tool	09 99 000 0329
		Multiple crimping tool depth adjustment gauge, wire gauge: 0.5 - 1 mm <sup>2</sup> and 1.5 – 2.5 mm <sup>2</sup>	for BUCHANAN crimping tool	09 99 000 0379
		Removal tool Han P®	for Han P® contacts	09 99 000 0319

POWER (ACCESSORIES)	TOOLING V4			
		HARTING PushPull Power crimping tool		09 46 800 0000
		Crimping tool depth adjustment for HARTING PushPull Power crimping tool	Diameter 1.02 mm Diameter 1.15 mm	09 46 800 0002 09 46 800 0003
		Insertion tool for HARTING PushPull Power contacts	Removal tool Insertion tool	09 46 800 0098 09 46 800 0099
		Locator for HARTING PushPull Power contacts	for use with BUCHANAN crimping tool 09 99 000 0001	09 46 800 0010

ACCESSORIES	ACCESSORIES V4			
		HARTING PushPull protection covers for Hybrid, USB, RJ45, Power and LC duplex, device side, plastic	Protection cover IP 40	09 45 845 0003
			Protection cover IP 65 / IP 67, passive locking with fixing cord	09 45 845 0009
			Protection cover IP 65 / IP 67, active locking with fixing cord	09 45 845 0014
			Protection cover IP 65 / IP 67, active locking without fixing cord	09 45 845 0015
	HARTING PushPull protection covers for Hybrid, USB, RJ45, Power and LC duplex, connector, plastic	Protection cover IP 65 / IP 67, active locking with fixing cord	09 45 845 0010	

ACCESSORIES	ACCESSORIES V14			
		Han® PushPull protection cover, plastic, for RJ45, SCRJ, Power, device side	Protection cover IP 40	09 35 002 5401
			Protection cover IP 65 / IP 67	09 35 002 5402
	Han® PushPull protection cover, plastic, for RJ45, SCRJ, Power, cable side	Protection cover IP 40 Protection cover IP 65 / IP 67	09 35 002 5412 09 35 002 5411	



**Pushing Performance**

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