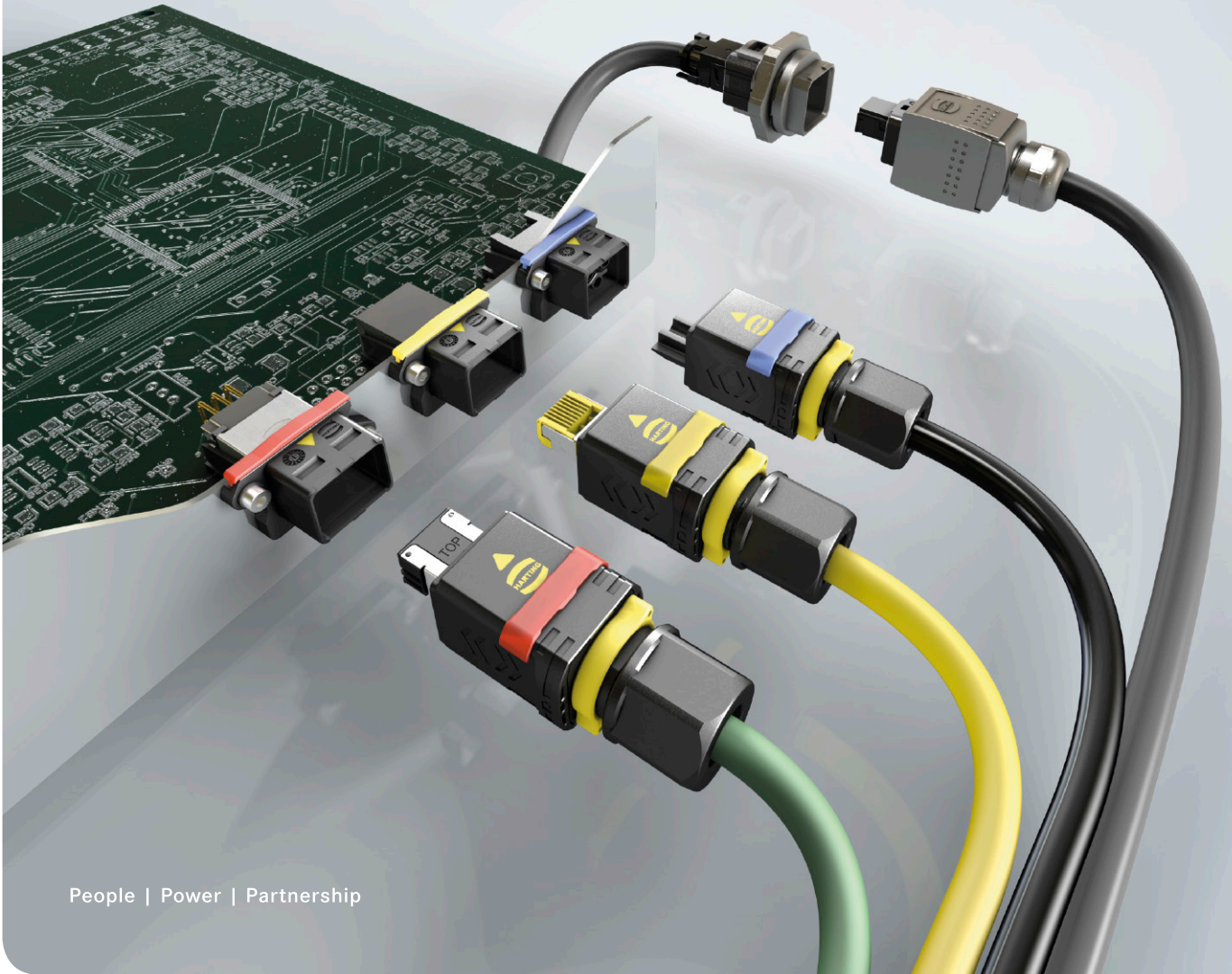




Pushing Performance



People | Power | Partnership

HARTING

PushPull Selection Guide

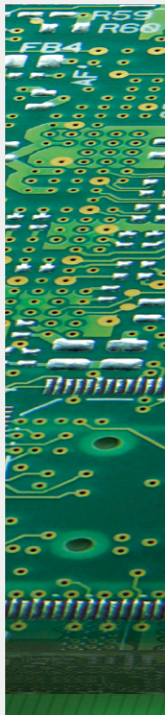
HARTING PushPull Device Connectivity for Data – Signal – Power

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 690 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 IP65 / IP67 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 IP65 / IP67 Device Connectivity featuring convenient handling and universal functionality for all lifelines.

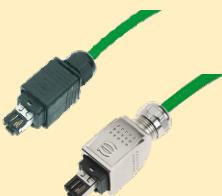
DEVICE SIDE			CABLE SIDE		
HOUSING MATERIALS		CONTACT INSERT	CONTACT INSERT	HOUSING MATERIALS	
  • METAL • PLASTIC 	DATA				
	RJ45				
	LC duplex				
	SCRJ				
	USB				
	SIGNAL				
	Mini DisplayPort				
	50 V / 5 A 10 poles / 20 poles				
	POWER				
	48 V / 5 A 4 poles				
	250 V / 16 A 3 poles				
	400/690 V / 16 A 5 poles				
	24 V / 16 A 5 poles				

V4

DIRECT DEVICE INTEGRATION ON PCB			
	HARTING PushPull EasyInstall bulkhead housing for device integration	Metal, angled, without fixing clip Metal, angled, with fixing clip	09 45 595 0030 09 45 595 0031
	HARTING PushPull Compact bulkhead housing for device integration	Plastic, angled, without fixing clip Plastic, angled, with fixing clip	09 45 545 0043 09 45 545 0042
		Plastic, straight, without fixing clip	09 45 545 0040
	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	Compact, Cat. 6	09 45 245 1561
	HARTING PushPull RJ45 panel feed-through, plastic with cable jack	Compact housing Cable jack, 8 pole, Cat. 6, AWG 28 - 24, IDC Cable jack, 8 pole, Cat. 6, AWG 24 - 22, IDC preLink® cable jack, 8 pole, Cat. 6	09 45 545 0041 09 45 545 1561 09 45 545 1562 20 82 001 0002
CONNECTOR CABLE SIDE			
	HARTING PushPull RJ45 connector with IDC- or piercing termination, metal	4 poles, Cat. 5 IDC 8 poles, Cat. 6 _A 8 poles, Cat. 6 IDC	09 45 195 1100 09 45 195 1520 09 45 195 1560
	HARTING PushPull RJ45 connector with IDC- or piercing termination, plastic	4 poles, Cat. 5 IDC 8 poles, Cat. 6 _A 8 poles, Cat. 6 IDC	09 45 145 1106 09 45 145 1521 09 45 145 1561
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)	1.0 m 3.0 m 5.0 m 10.0 m	09 48 282 8756 010 09 48 282 8756 030 09 48 282 8756 050 09 48 282 8756 100
OUTLETS			
	HARTING PushPull RJ45 outlet, Cat. 6, 2 times	Plastic, black Plastic, white	09 45 845 1500 09 45 845 1501
	IP65 / IP67 HARTING PushPull RJ45 coupler, Cat.6	Plastic, black	09 45 345 1560

V14

DIRECT DEVICE INTEGRATION ON PCB			
	Han® PushPull RJ45 bulkhead housing for device integration	Metal Plastic	09 35 002 0301 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, straight, Cat. 6, rectangular Metal, straight, Cat. 6, circular Plastic, straight, Cat. 6	09 35 225 0311 09 35 225 0312 09 35 225 0331
	Han® PushPull RJ45, panel feed-through with cable jack	Metal housing, rectangular, HIFF Metal housing, circular, HIFF Plastic housing, rectangular, HIFF Cable jack, 8 pole, Cat. 6, AWG 28 - 24, IDC Cable jack, 8 pole, Cat. 6, AWG 24 - 22, IDC preLink® cable jack, 8 pole, Cat. 6	09 35 012 0311 09 35 012 0312 09 35 012 0331 09 45 545 1561 09 45 545 1562 20 82 001 0002

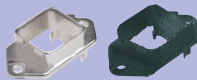
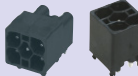
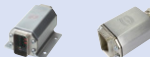
DATA (RJ45)	V14	CONNECTOR CABLE SIDE				
			Han® PushPull RJ45, connector, with IDC-, piercing or preLink® termination	Metal, RJ45 4 poles, Cat. 5 IDC Metal, RJ45 4 poles, Cat. 5, IDC, PROFINET Metal, RJ45 8 poles, Cat. 6A Metal, RJ45 8 poles, Cat. 6 IDC Metal, RJ45 8 poles, Cat. 6A preLink® Metal, angled, cable exit bottom, RJ45 8 poles, Cat. 6 IDC Metal, angled, cable exit top, RJ45 8 poles, Cat. 6 IDC Metal, angled, cable exit bottom, RJ45 8 poles, Cat. 6A preLink®	09 35 221 0401 09 35 226 0401 09 35 227 0401 09 35 225 0401 20 82 104 0001 09 35 225 0402 09 35 225 0403 20 82 104 0045	
			Han® PushPull RJ45, connector, with IDC-, piercing or preLink® termination	Plastic, RJ45 4 poles, 6.5 - 9.5 mm, IDC Plastic, RJ45 4 poles, 5 - 8 mm, IDC Plastic, RJ45 4 poles, Cat. 5, IDC, PROFINET Plastic, RJ45 8 poles, Cat. 6 Plastic, RJ45 8 poles, Cat. 6 IDC Plastic, RJ45 8 poles, Cat. 6A preLink®	09 35 221 0421 09 35 222 0421 09 35 226 0421 09 35 227 0421 09 35 225 0421 20 82 204 0001	
		ACCESSORIES				
			Han® PushPull RJ45, gender changer / cable coupling, 8 poles, Cat. 6, class EA	Gender changer RJ45, metal Cable coupling, metal	09 35 221 0501 61 04 201 1084	
		SYSTEM CABLE				
			Han® PushPull system cable RJ45, 4 poles, green, copper, shielded, Cat. 5, 10/100 Mbit/s (other cable types and lengths on request)	Length	Metal	Plastic
			Type A, outer jacket PVC	3.0 m	09 47 565 6005	09 47 555 5005
			Type B, outer jacket PVC	3.0 m	09 47 565 6035	09 47 555 5035
			Type C, outer jacket PUR	3.0 m	09 47 565 6065	09 47 555 5065
DATA (FIBER OPTIC LC-DUPLEX)	V4	TOOLING				
			HARTING RJ Industrial® stripping tool	Stripping for Ethernet cable inclusive blade cassette	09 45 800 0000	
				Blade cassette	09 45 800 0001	
			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 0520	
		preLink® mounting tool	for preLink® connectors	20 82 000 9901		
		DEVICE INTEGRATION WITH PANEL FEED-THROUGH				
			HARTING PushPull LC duplex panel feed-through	Metal, multimode GOF EasyInstall Metal, singlemode GOF EasyInstall Plastic, multimode GOF Compact Plastic, singlemode GOF Compact	09 57 468 0500 000 09 57 468 0501 000 09 57 442 0511 000 09 57 442 0512 000	
SYSTEM CABLE						
	HARTING PushPull LC duplex system cable	Length	Metal	Plastic		
	Other cable types and length on request	1.0 m singlemode 1.0 m multimode 50 / 125 1.0 m multimode 62.5 / 125 10.0 m singlemode 10.0 m multimode 50 / 125 10.0 m multimode 62.5 / 125	33 58 231 0010 026 33 58 231 0010 027 33 58 231 0010 028 33 58 231 0100 026 33 58 231 0100 027 33 58 231 0100 028	33 61 221 0010 001 33 61 221 0010 002 33 61 221 0010 003 33 61 221 0100 001 33 61 221 0100 002 33 61 221 0100 003		

DATA (FIBER OPTIC SCRJ)	V14	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	Metal, optical panel feed-through Plastic, optical panel feed-through 09 35 242 0313 09 35 242 0333
		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 Metal, inclusive 2x SC POF crimp contacts Plastic, inclusive 2x SC POF contacts Plastic, order SC contacts separately 09 35 241 0401 09 35 241 0402 09 35 242 0401 09 35 241 0421 09 35 241 0422
			IP20 SCRJ POF connector, duplex, plastic	inclusive 2x SC POF contacts inclusive 2x SC POF contacts, crimp 09 35 002 4002 09 35 002 4003
		TOOLING		
			Mounting case POF, cutting without polishing	for field termination of SC-POF contacts for field termination of SC-crimp contacts 09 35 000 9913 09 35 000 9915 Replacement cutting tool 09 35 000 9914
		SYSTEM CABLE		
			IP20 cable assembly, round cable, green, outer jacket PUR, both sides assembled with SCRJ IP20 connector (other cable types and lengths 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 IP65 / IP67, plastic version (other cable types and lengths 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 IP65 / IP67, metal version (other cable types and lengths 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

DATA (USB)	V4	DIRECT DEVICE INTEGRATION ON PCB		
			HARTING PushPull Compact bulkhead housing for device integration	Plastic, angled, without fixing clip Plastic, angled, with fixing clip 09 45 545 0043 09 45 545 0042
			HARTING PushPull USB solder jack, angled 90°, THT	USB 2.0 type B 09 45 541 1900
			HARTING PushPull USB adapter PCB	USB 2.0 type A to pin header USB 2.0 type A to solder points USB 2.0 type B-B USB 2.0 type B-B, 90° USB 2.0 type A-B 09 45 541 1902 09 45 541 1903 09 45 541 1906 09 45 541 1907 09 45 541 1910
		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 1920 09 45 245 1930
		SYSTEM CABLE		
			HARTING PushPull USB shielded system cable (other cable types and lengths 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 45 445 3902 09 45 445 1902 09 45 445 2902
				USB 2.0 type B, PushPull - IP20 1.5 m USB 2.0 type A, PushPull - IP20 1.5 m USB 3.0 type A, PushPull - IP20 1.5 m 09 45 445 3912 09 45 445 1912 09 45 445 2912

SIGNAL MINI DISPLAYPORT	V4	DIRECT DEVICE INTEGRATION ON PCB					
			HARTING PushPull Mini DisplayPort bulkhead housing, plastic, for device integration	Compact housing	09 45 545 0042		
				Mini DisplayPort jack, angled	09 45 551 1000		
				Adapter for the integration of the Mini DisplayPort jack into the Compact housing	09 45 545 1002		
		SYSTEM CABLE					
			HARTING PushPull Mini DisplayPort system cable, 20 poles, black, TPE, AWG 32, both sides assembled	DisplayPort 1.2, both sides PushPull	0.5 m	09 45 145 1000	
				DisplayPort 1.2, both sides PushPull	1.0 m	09 45 145 1001	
				DisplayPort 1.2, both sides PushPull	1.5 m	09 45 145 1002	
				DisplayPort 1.2, both sides PushPull	2.0 m	09 45 145 1003	
				DisplayPort 1.1, both sides PushPull	3.0 m	09 45 145 1004	
				DisplayPort 1.2 PushPull / IP20	0.5 m	09 45 145 1010	
				DisplayPort 1.2 PushPull / IP20	1.0 m	09 45 145 1011	
				DisplayPort 1.2 PushPull / IP20	1.5 m	09 45 145 1012	
				DisplayPort 1.2 PushPull / IP20	2.0 m	09 45 145 1013	
				DisplayPort 1.1 PushPull / IP20	3.0 m	09 45 145 1014	
SIGNAL 10 POLES / 20 POLES	V4	DEVICE INTEGRATION ON PCB					
			HARTING PushPull Signal jack insert, 10 poles, 50 V / 5 A	Compact housing, without fixing clip, angled Compact housing, with fixing clip Compact housing, without fixing clip, straight Signal solder jack, straight Signal solder jack, angled	09 45 545 0043 09 45 545 0042 09 45 545 0040 09 45 545 9012 09 45 545 9011		
		DEVICE INTEGRATION WITH PANEL FEED-THROUGH					
			HARTING PushPull Signal panel feed-through, 50 V / 5 A, plastic	Compact housing, 10 poles, without insert System cable (1 m) with compact housing, 10 poles System cable (1 m) with compact housing, 20 poles Insert for crimp contacts (Order male D-Sub contacts separately)	09 45 545 0041 09 48 430 08A6 010 33 22 143 0500 002 09 45 545 9010		
		CONNECTOR CABLE SIDE					
			HARTING PushPull Signal connector, 10 poles, 50 V / 5 A, plastic	Connector for crimp contacts (Order female D-Sub contacts separately)	09 45 145 9011		
		SYSTEM CABLE					
			HARTING PushPull system cable, 10 poles, AWG 20, PVC (other cable types and lengths on request)	0.5 m 1.0 m 2.0 m 5.0 m	09 48 313 18A6 005 09 48 313 18A6 010 09 48 313 18A6 020 09 48 313 18A6 050		
			HARTING PushPull system cable, 20 poles, 0.14 mm², PUR (other cable types and lengths on request)	0.5 m 1.0 m 2.0 m 5.0 m	09 48 353 5848 005 09 48 353 5848 010 09 48 353 5848 020 09 48 353 5848 050		
		SIGNAL 10 POLES / 20 POLES	V14	DEVICE INTEGRATION ON PCB			
					Han® PushPull Signal jack insert, 10 poles, 50 V / 5 A	Metal housing, rectangular Plastic housing, rectangular Signal solder jack, straight Signal solder jack, angled	09 35 002 0303 09 35 002 0323 09 35 002 6002 09 35 002 6001
				DEVICE INTEGRATION WITH PANEL FEED-THROUGH			
					Han® PushPull Signal panel feed-through, 10 poles, 50 V / 5 A	Metal housing, rectangular Metal housing, circular Plastic housing, rectangular Insert for crimp contacts (Order male D-Sub contacts separately)	09 35 012 0311 09 35 012 0312 09 35 012 0331 09 45 545 9010
				CONNECTOR CABLE SIDE			
					Han® PushPull Signal connector, 10 poles, 50 V / 5 A	Metal connector for crimp contacts Plastic connector for crimp contacts Plastic connector for crimp contacts Plastic connector for crimp contacts (Order female D-Sub contacts separately)	6.5 - 9.5 mm 9 - 13 mm 4 - 6.5 mm 09 35 261 0401 09 35 261 0421 09 35 261 0423 09 35 262 0423
ACCESSORIES							
	Han® PushPull Signal cable coupling, 10 poles, 50 V / 5 A			Cable coupling, metal	61 04 201 1086		

POWER (48 V / 5 A)	V4	DIRECT DEVICE INTEGRATION ON PCB			
			HARTING PushPull EasyInstall bulkhead housing for device integration	Metal, angled, without fixing clip	09 45 595 0030
			HARTING PushPull Compact bulkhead housing for device integration	Plastic, angled, without fixing clip Plastic, angled, with fixing clip	09 45 545 0043 09 45 545 0042
			HARTING PushPull Power jack insert, 4 poles, 48 V / 12 A	angled, 90° for PCB mounting straight, 180° for PCB mounting straight, for crimp contacts	09 46 500 4400 09 46 500 4402 09 46 500 4401
		DEVICE INTEGRATION WITH PANEL FEED-THROUGH			
			HARTING PushPull Power panel feed-through, 4 poles 48 V / 12 A, metal	EasyInstall without crimp contacts EasyInstall with spring-cage connection	09 46 295 4430 09 46 295 4031
			HARTING PushPull Power panel feed-through, 4 poles 48 V / 12 A, plastic	Compact with crimp contacts AWG 16 - 14 Compact with spring-cage connection	09 46 245 4420 09 46 245 4021
		CONNECTOR CABLE SIDE			
			HARTING PushPull Power connector, 4 poles 48 V / 12 A	Metal, without contacts	09 46 195 4400
			HARTING PushPull Power connector, 4 poles 48 V / 12 A	Plastic, with crimp contacts AWG 16 - 14 Plastic, without contacts	09 46 145 4420 09 46 145 4421
			Han-Power® T energy distributor, 3 x 4 poles 48 V / 12 A	Plastic, with contacts	09 12 008 4770
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	Compact with crimp contacts AWG 16 - 14 Power female with solder termination, angled Power female with crimp termination, without contacts	09 46 245 3420 09 46 500 3400 09 46 500 3401
		CONNECTOR CABLE SIDE			
			HARTING PushPull Power connector, 3 poles 250 V / 16 A	Plastic, with crimp contacts AWG 16 - 14 Plastic, without contacts	09 46 145 3420 09 46 145 3421
POWER (ACCESSORIES)	V4	ACCESSORIES			
			HARTING PushPull Power female crimp contacts for HARTING PushPull panel feed-through	for 0.75 mm ² (AWG 20 - 18) for 1.0 mm ² (AWG 18) for 1.0 - 1.5 mm ² (AWG 16 - 14) for 2.5 mm ² (AWG 12)	09 46 500 0404 09 46 500 0408 09 46 500 0402 09 46 500 0406
			HARTING PushPull Power male crimp contacts for HARTING PushPull connector	for 0.75 mm ² (AWG 20 - 18) for 1.0 mm ² (AWG 18) for 1.0 - 1.5 mm ² (AWG 16 - 14) for 2.5 mm ² (AWG 12)	09 46 500 0403 09 46 500 0407 09 46 500 0401 09 46 500 0405
			HARTING PushPull Power coding pin set	for 4 different codings	09 46 840 0000

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, 230/400 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, 5 poles, 16 A, 690 V, with crimp or Quick Lock®-termination, touch-proof, 4 times codeable, order Han® P male crimp contacts separately	Metal, crimp termination – rectangular cut-out Metal, Quick Lock® termination, 0.5 ... 2.5 mm² Metal, Quick Lock® termination, 0.25 ... 1.5 mm² Metal, crimp termination – circular cut-out Metal, Quick Lock® termination, 0.5 ... 2.5 mm² Metal, Quick Lock® termination, 0.25 ... 1.5 mm²	09 35 231 0311 09 35 232 0311 09 35 234 0311 09 35 231 0312 09 35 232 0312 09 35 234 0312
				Plastic, crimp termination – rectangular cut-out Plastic, Quick Lock® termination, 0.5 ... 2.5 mm² Plastic, Quick Lock® termination, 0.25 ... 1.5 mm² Plastic, crimp termination – circular cut-out Plastic, Quick Lock® termination, 0.5 ... 2.5 mm² Plastic, Quick Lock® termination, 0.25 ... 1.5 mm²	09 35 231 0331 09 35 232 0331 09 35 234 0331 09 35 231 0332 09 35 232 0332 09 35 234 0332
		CONNECTOR CABLE SIDE			
			Han® PushPull Power, connector, 5 poles, 16 A, 690 V, with crimp or Quick Lock®-termination, 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, 0.5 ... 2.5 mm² Metal, Quick Lock® termination, 0.25 ... 1.5 mm²	09 35 231 0401 09 35 232 0401 09 35 234 0401
				Plastic, crimp termination, 6.5 - 9.5 mm Plastic, crimp termination, 9 - 13 mm Plastic, Quick Lock® termination, 6.5 - 9.5 mm, 0.5 ... 2.5 mm² Plastic, Quick Lock® termination, 6.5 - 9.5 mm, 0.25 ... 1.5 mm² Plastic, Quick Lock® termination, 9 - 13 mm, 0.5 ... 2.5 mm²	09 35 231 0421 09 35 231 0423 09 35 232 0421 09 35 234 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 mm² for 0.75 mm² for 1.0 mm² for 1.5 mm² for 2.5 mm²	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 mm² for 0.75 mm² for 1.0 mm² for 1.5 mm² for 2.5 mm²	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	DEVICE INTEGRATION WITH PANEL FEED-THROUGH			
			Han® PushPull Power L bulkhead housing for device integration	Metal	09 35 014 0301
			Han® PushPull Power L, panel feed-through, 5 poles, 16 A, 24 V, spring-cage connection, 0.75 – 2.5 mm², touch-proof	Metal, fixed coding, 24 V acc. PNO Guideline Metal, variable coding	09 35 433 0311 09 35 434 0311
		CONNECTOR CABLE SIDE			
			Han® PushPull Power L, connector, 5 poles, 16 A, 24 V, spring-cage connection, 0.75 – 2.5 mm², touch-proof	Metal, fixed coding, 24 V acc. PNO Guideline, 9 - 13 mm Metal, fixed coding, 24 V acc. PNO Guideline, 6 - 10 mm Metal, variable coding, 9 - 13 mm	09 35 433 0401 09 35 433 0441 09 35 434 0401
		ACCESSORIES			
			Han® PushPull Power L, gender changer, cable coupling, 5 poles, 16 A, 24 V	Gender changer Power L Cable coupling, metal	09 35 431 0501 61 04 201 1085
			Han® PushPull Power L, protection cover IP65 / IP67	for bulkhead housing for cable side	09 35 004 5402 09 35 004 5412
			Separate seal for Han® PushPull Power L connector	4 - 6.5 mm 6 - 10 mm	09 35 004 9907 09 35 004 9908

POWER (ACCESSORIES)	V4	TOOLING V4			
			HARTING PushPull Power crimping tool		09 46 800 0000
			Insertion and removal tools 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 crimping tool 09 99 000 0001	09 46 800 0010
	V14	TOOLING V14			
			Crimping tool	Wire gauge: 0.5 - 2.5 mm ²	09 99 000 0888
			Locator Han P®	for crimping tool	09 99 000 0886
			Multiple crimping tool depth adjustment gauge, wire gauge: 0.5 - 1 mm ² and 1.5 - 2.5 mm ²	for crimping tool	09 99 000 0379
			Removal tool Han P®	for Han P® contacts	09 99 000 0319
ACCESSORIES	V4	ACCESSORIES V4			
			HARTING PushPull protection covers for Hybrid Signal, USB, RJ45, Power and LC duplex, device side, plastic	Protection cover IP40	09 45 845 0003
				Protection cover IP65 / IP67, passive locking without fixing cord passive locking with plastic fixing cord passive locking with nylon fixing cord	09 45 845 0009 024 09 45 845 0009 09 45 845 0011 024
				Protection cover IP65 / IP67, active locking without fixing cord active locking with plastic fixing cord active locking with nylon fixing cord	09 45 845 0015 09 45 845 0014 09 45 845 0013
			HARTING PushPull protection covers for Hybrid Signal, USB, RJ45, Power and LC duplex, connector, plastic	Protection cover IP65 / IP67, with fixing cord	09 45 845 0010
			HARTING PushPull housings, plastic	Cable to cable, cable diameter 6.5 - 9.5 mm Bulkhead	09 45 345 0000 09 45 345 0001
			HARTING PushPull blinding plate		09 45 845 0019
			HARTING PushPull bulkhead, plastic, black	for an easy connection of PushPull RJ45 system cords	09 45 345 1560
	V14	ACCESSORIES V14			
			Han® PushPull protection cover, plastic, for RJ45, SCRJ, Power, Signal, device side, passive locking	Protection cover IP40	09 35 002 5401
				Protection cover IP65 / IP67 without fixing cord with plastic fixing cord with nylon fixing plastic cord	09 35 002 5403 XL 09 35 002 5402 09 35 002 5404
			Han® PushPull protection cover, plastic, for RJ45, SCRJ, Power, Signal, cable side	Protection cover IP40	09 35 002 5412
				Protection cover IP65 / IP67 without fixing cord with nylon fixing cord	09 35 002 5411 09 35 002 5413
			Han® PushPull cable to cable plastic housing	for outer cable diameter 6.5 ... 9.5 mm for outer cable diameter 9 ... 13 mm	09 35 002 0431 09 35 002 0433



Pushing Performance

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