



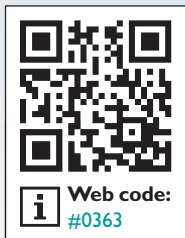
Modular rectangular connectors

Product overview 2019/2020

Modular rectangular connectors for signals, data, and power

The VARIOCON connector system offers compact connections for transmitting currents up to 70 A and voltages up to 1000 V in devices and junction boxes.

Modular contact inserts with screw and PCB connection, as well as fixed contact inserts with crimp connection for turned and punched contacts, form the basis of the range. Thanks to IP68/IP69K protection, the connector system offers a high degree of reliability, even under extreme conditions.

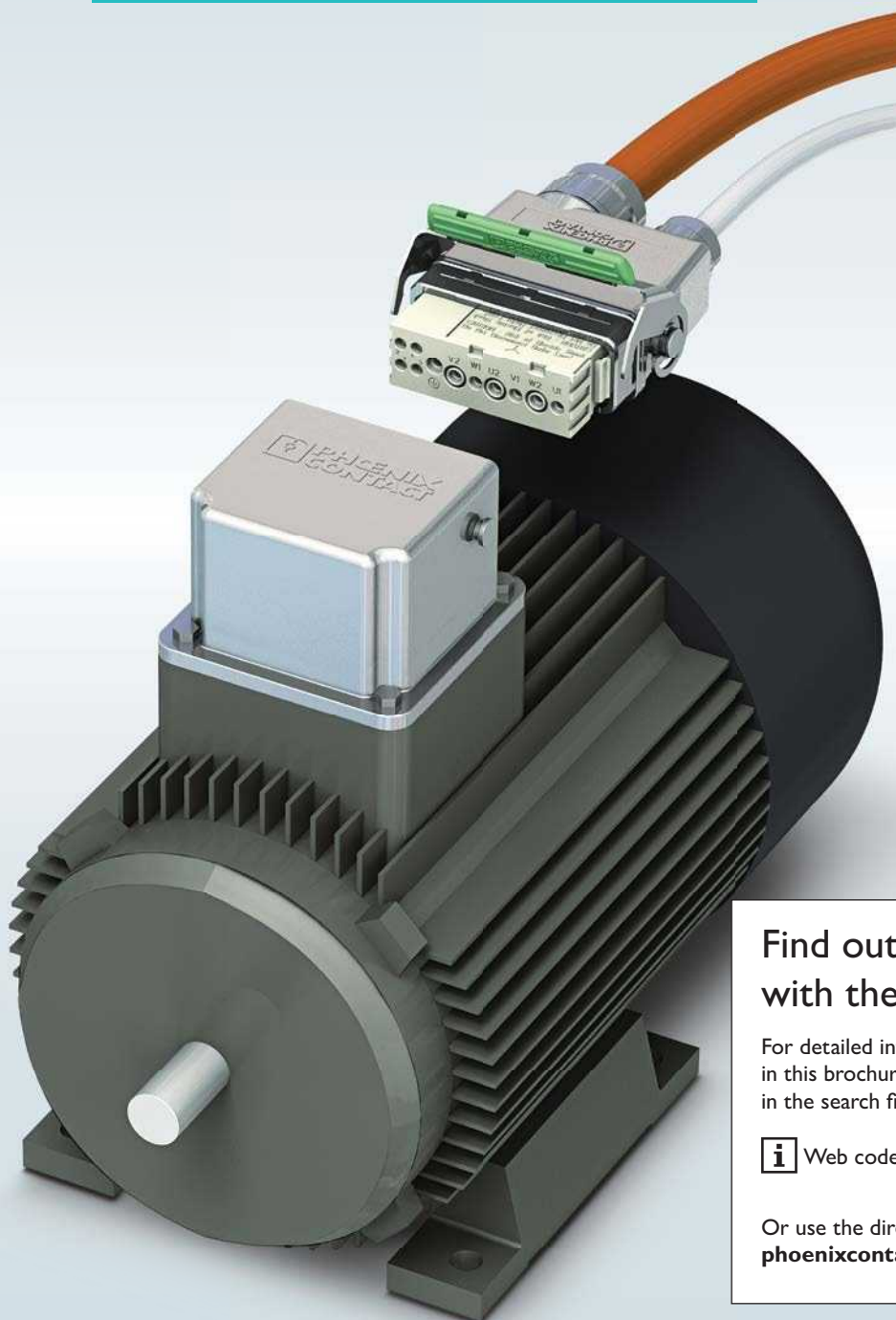


Your advantages

- ✓ Modular contact insert design
- ✓ Combination of power, signal, and fiber optics in one connector
- ✓ Housing designs made of plastic and metal
- ✓ Nickel-plated housing available for EMC applications
- ✓ Easy configuration via online configurator (see page 19)

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Find out more with the web code

For detailed information, use the web codes provided in this brochure. Simply enter # and the four-digit number in the search field on our website.

i Web code: #1234 (example)

Or use the direct link:
phoenixcontact.net/webcode/#1234

The right solution for every application

Whether for reliable inverters, complex conveying systems or state-of-the-art energy storage applications – the VARIOCON portfolio offers the right solution for every application. The VARIOCON hybrid connectors can be used for any application where power, data, and signals need to be transmitted in an IP-protected connector.



Solutions and application examples



Drive control systems

Thanks to the shielded sleeve housing, signals and data are also transmitted reliably in EMC applications.



Inverters

UV-resistant housings with IP65 protection ensure reliable connection even in a robust environment.



Control cabinet

A variety of base housings enable attachment to the housing panel and free-hanging wiring.



Battery units

Important for energy storage: power and data can be combined in one connector. The battery management system therefore knows the state of the individual modules at all times.



Cranes

Regardless of the wind or weather conditions, power and data can be transmitted without any malfunctions, thanks to the high degree of protection up to IP69K.



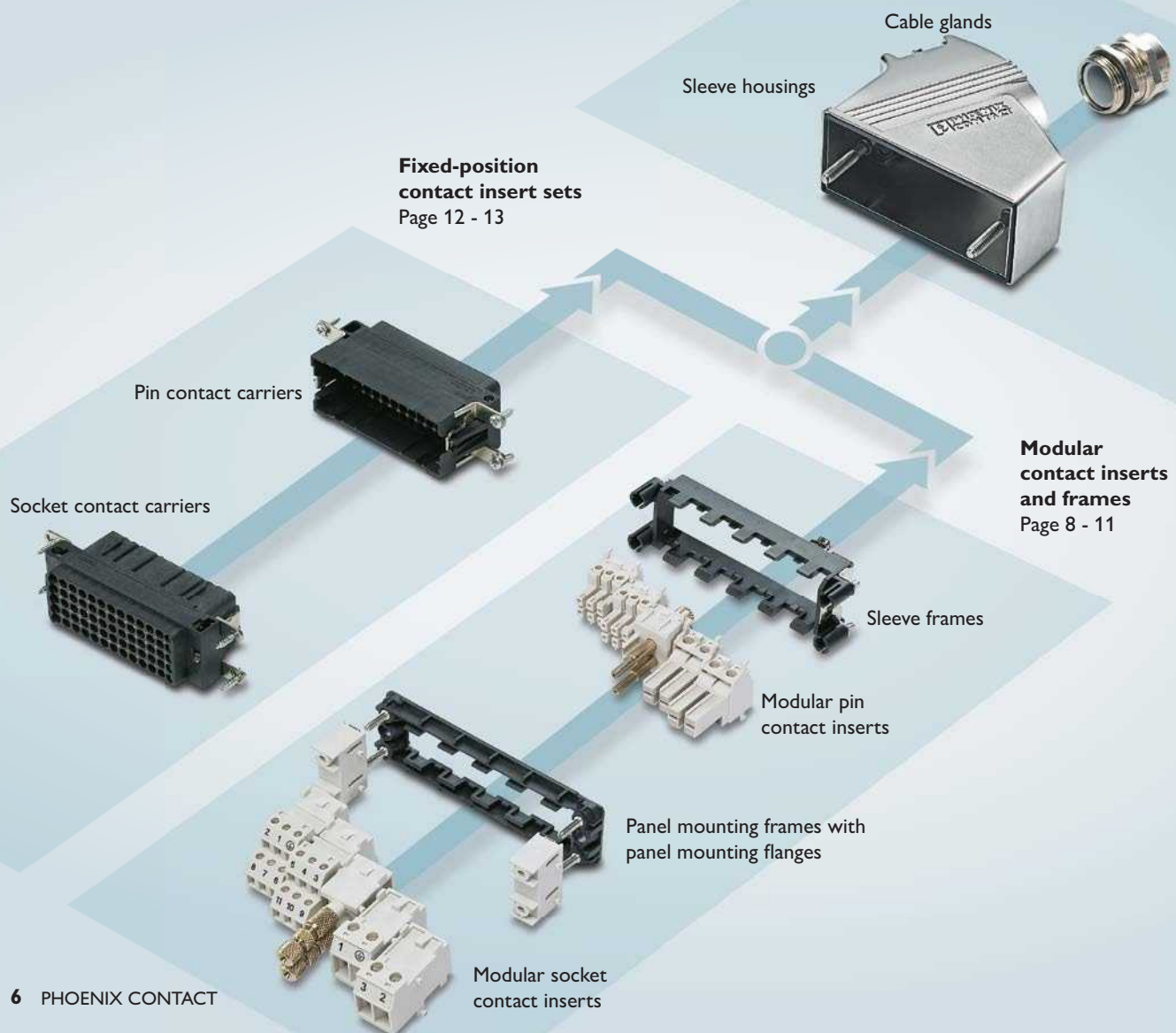
Conveying systems

In the right place at the right time: modular rectangular connectors can be configured to suit the respective application.

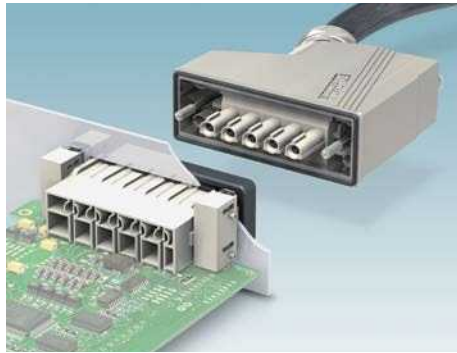
The modular connector system with a compact design

The VARIOCON product range enables power, signal, and data transmission to be combined in a single connector. Screw, crimp or direct PCB connection can be selected for the device side. Crimp contact inserts are available for applications with a high contact density. Additional modules are available for data transmission via fiber optics.

Sleeve housings and cable glands
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Device connections and connectors



PCB connection

Contact inserts with PCB connection for parallel or perpendicular arrangements of the PCB to the device panel.



Screw and crimp connection

Contact inserts with screw and crimp connection for connecting device-internal litz wires.



Surface mounting housings and coupling housings

For plug-in cabling directly on the device panel or flying leads.



Pre-assembled contact insert sets

Complete sets consisting of: frame, mounting screws, pre-assembled modules, and coding profiles.



High-position contact carriers

Pin and socket contact carriers for turned and rolled crimp contacts for applications with up to 65 positions.



Modular structure

Easy combination of power, signal, and fiber optics in one connector.



Four sizes

Widths from 32.4 mm to 77.4 mm with two to five module slots.



Different cable outlets

Sleeve housings with angled and straight cable outlet make mounting easier.



Various materials

Sleeve housings, surface mounting housings, and coupling housings made of plastic or die-cast zinc.

Modular contact inserts for device connection

Modular contact inserts – Device side								
	Type	Number of pos.	Module slots	PCB connection				Screw connection
					180°	90°	90° with PE	
	FO	2	1	-	-	-	-	 1885240
100 insertion cycles	1.5 mm ²	6	1		1884872	1853531	-	 1854019 1583555*
	1.5 mm ²	8	1		1884885	1852833	-	 1854022 1583568*
	4 mm ²	2	1		1884979	1852859	-	 1853528 1583542*
50 insertion cycles	16 mm ²	4	3		-	1607509	1607516	 1607745
	16 mm ²	5	4		-	1607523	1607530	 1607748
	16 mm ²	7	5		-	1607537	1607544	 1607751

Modular contact inserts for connectors

Modular contact inserts – Connector side				 Web code: #0536
Rated current	Rated voltage	Module slots		Order No.
-	-	1		1855814
10 A	250 V	1		1853476 1583526*
10 A	160 V	1		1852820 1583536*
20 A	400 V	1		1852846 1583513*
70 A	690 V	3 4 (1 of which is free) 5 (2 of which are free)		1607467** 1607488** 1607495**
70 A	690 V	4 5 (1 of which is free)		1607474** 1607502**
70 A	690 V	5		1607481**

* Contact insert with PE marking

** Products do not require separate panel mounting frame or sleeve frame

Panel mounting frames for device connection

Panel mounting frames – Device side				 Web code: #0539	
					
Size	Module slots	Standard		Additional EMC shielding frame	
		Type	Order No.	Type	Order No.
VC 1	2	VC-AR 1/2 M	1852972*	VC-AR1-EMV	1853214
VC 2	3	VC-AR 2/3 M	1852985*	VC-AR2-EMV	1853227
VC 3	4	VC-AR 3/4 M	1852998*	VC-AR3-EMV	1853230
VC 4	5	VC-AR 4/5 M	1853007*	VC-AR4-EMV	1853243

Pin contact inserts incl. panel mounting frame and flange					 Web code: #0528
					
Size	Number of positions/ conductor cross section	Rated voltage	Rated current	Type	Order No.
VC 1	16 x 1.5 mm ²	160 V	10 A	VC-AR 1/2 M-S88-SET	1607394
	12 x 1.5 mm ²	250 V	10 A	VC-AR 1/2 M-S66-SET	1607346
	4 x 4 mm ²	400 V	20 A	VC-AR 1/2 M-S22-SET	1607298
VC 2	24 x 1.5 mm ²	160 V	10 A	VC-AR 2/3 M-S888-SET	1607407
	18 x 1.5 mm ²	250 V	10 A	VC-AR 2/3 M-S666-SET	1607359
	6 x 4 mm ²	400 V	20 A	VC-AR 2/3 M-S222-SET	1607311
VC 3	32 x 1.5 mm ²	160 V	10 A	VC-AR 3/4 M-S8888-SET	1607418
	24 x 1.5 mm ²	250 V	10 A	VC-AR 3/4 M-S6666-SET	1607370
	8 x 4 mm ²	400 V	20 A	VC-AR 3/4 M-S2222-SET	1607322
VC 4	40 x 1.5 mm ²	160 V	10 A	VC-AR 4/5 M-S88888-SET	1607431
	30 x 1.5 mm ²	250 V	10 A	VC-AR 4/5 M-S66666-SET	1607383
	10 x 4 mm ²	400 V	20 A	VC-AR 4/5 M-S 22222-SET	1607335

Sleeve frames for connectors

Sleeve frames – Connector side

 Web code: #0538



Size	Module slots	Type	Order No.
VC 1	2	VC-TR 1/2 M-PEA	1607059
VC 2	3	VC-TR 2/3 M-PEA	1607062
VC 3	4	VC-TR 3/4 M-PEA	1607075
VC 4	5	VC-TR 4/5 M-PEA	1607088

Socket contact inserts incl. sleeve frames

 Web code: #0529



Size	Number of positions/ conductor cross section	Rated voltage	Rated current	Type	Order No.
VC 1	16 x 1.5 mm ²	160 V	10 A	VC-TR 1/2 M-PEA-S88-SET	1607239
	12 x 1.5 mm ²	250 V	10 A	VC-TR 1/2 M-PEA-S66-SET	1607191
	4 x 4 mm ²	400 V	20 A	VC-TR 1/2 M-PEA-S22-SET	1607143
VC 2	24 x 1.5 mm ²	160 V	10 A	VC-TR 2/3 M-PEA-S888-SET	1607250
	18 x 1.5 mm ²	250 V	10 A	VC-TR 2/3 M-PEA-S666-SET	1607202
	6 x 4 mm ²	400 V	20 A	VC-TR 2/3 M-PEA-S222-SET	1607154
VC 3	32 x 1.5 mm ²	160 V	10 A	VC-TR 3/4 M-PEA-S8888-SET	1607263
	24 x 1.5 mm ²	250 V	10 A	VC-TR 3/4 M-PEA-S6666-SET	1607215
	8 x 4 mm ²	400 V	20 A	VC-TR 3/4 M-PEA-S2222-SET	1607167
VC 4	40 x 1.5 mm ²	160 V	10 A	VC-TR 4/5 M-PEA-S88888-SET	1607274
	30 x 1.5 mm ²	250 V	10 A	VC-TR 4/5 M-PEA-S66666-SET	1607226
	10 x 4 mm ²	400 V	20 A	VC-TR 4/5 M-PEA-S22222-SET	1607178

Contact carriers and crimp contacts for device connection

Contact carriers for device connection – Device side							 Web code: #0530
	Description	Size	Number of positions/ conductor cross section	Rated voltage	Rated current	Type	Ord. No.
	Socket contact carriers for turned crimp contacts	VC 1	15 x 0.14 mm² ... 1.5 mm²	250 V	10 A	VC-D1-BU15-PE	1855050
		VC 2	30 x 0.14 mm² ... 1.5 mm²			VC-D2-BU30-PE	1855063
		VC 3	50 x 0.14 mm² ... 1.5 mm²			VC-D3-BU50-PE	1855076
		VC 4	65 x 0.14 mm² ... 1.5 mm²			VC-D4-BU65-PE	1855089
	Socket contact carriers for rolled crimp contacts	VC 1	15 x 0.14 mm² ... 1.5 mm²			VC-D1-BU15-PE-R	1884801
		VC 2	30 x 0.14 mm² ... 1.5 mm²			VC-D2-BU30- PE-R	1884791
		VC 3	50 x 0.14 mm² ... 1.5 mm²			VC-D3-BU50-PE-R	1884788
		VC 4	65 x 0.14 mm² ... 1.5 mm²			VC-D4-BU65-PE-R	1884775
Crimp contacts							
	Description	Type of contact	Conductor cross section	Type	Ord. No.		
	Turned socket contacts	Single contact, silver-plated	0.14 mm²/AWG 26	CK 1,6-ED-0,37BU AG	1663394		
			0.50 mm²/AWG 20	CK 1,6-ED-0,50BU AG	1663404		
			0.75 mm²/AWG 18	CK 1,6-ED-0,75BU AG	1663417		
			1.00 mm²/AWG 18	CK 1,6-ED-1,00BU AG	1663420		
			1.50 mm²/AWG 16	CK 1,6-ED-1,50BU AG	1663433		
		Single contact, gold-plated	0.14 mm²/AWG 26	CK 1,6-ED-0,37BU AU	1674969		
			0.50 mm²/AWG 20	CK 1,6-ED-0,50BU AU	1674480		
			0.75 mm²/AWG 18	CK 1,6-ED-0,75BU AU	1672440		
			1.00 mm²/AWG 18	CK 1,6-ED-1,00BU AU	1674943		
			1.50 mm²/AWG 16	CK 1,6-ED-1,50BU AU	1674930		
	Rolled socket contacts	Taped, silver-plated	0.14 ... 0.50 mm²/AWG 25 ... 20	CK 1,6-BR-0,50BU AG	1884186		
			0.50 ... 1.5 mm²/AWG 20 ... 16	CK 1,6-BR-1,50BU AG	1884173		
	Single contact, silver-plated	Single contact, silver-plated	0.50 mm²/AWG 20	CK 1,6 ER-0,5BU AG	1884128		
			1.50 mm²/AWG 16	CK 1,6 ER-1,5BU AG	1884115		
Crimping tools							
	Description				Type	Ord. No.	
	Crimping pliers for turned contacts – CK 1,6 ED ... and CK 2,5 ED ...				CRIMPFOX-1,6/2,5-ED-4,0	1687419	
	Crimping pliers for rolled contacts – CK 1,6 ER ... and BR ..., 0.5 - 1.5 mm²				CRIMPFOX-1,6-ER-1,50-AT	1884843	

Contact carriers and crimp contacts for connectors

Contact carriers for connectors – Connector side							 Web code: #0530
	Description	Size	No. of positions/ conductor cross section	Rated voltage	Rated current	Type	Ord. No.
	Pin contact carriers for turned/rolled crimp contacts	VC 1	15 x 0.14 mm² ... 1.5 mm²	250 V	10 A	VC-D1-ST15-PE	1855018
		VC 2	30 x 0.14 mm² ... 1.5 mm²			VC-D2-ST30-PE	1855021
		VC 3	50 x 0.14 mm² ... 1.5 mm²			VC-D3-ST50-PE	1855034
		VC 4	65 x 0.14 mm² ... 1.5 mm²			VC-D4-ST65-PE	1855047
Crimp contacts							
	Description	Type of contact	Conductor cross section		Type	Ord. No.	
	Turned pin contacts	Single contact, silver-plated	0.14 mm²/AWG 26		CK 1,6-ED-0,37ST AG	1663336	
			0.50 mm²/AWG 20		CK 1,6-ED-0,50ST AG	1663349	
			0.75 mm²/AWG 18		CK 1,6-ED-0,75ST AG	1663352	
			1.00 mm²/AWG 18		CK 1,6-ED-1,00ST AG	1663365	
			1.50 mm²/AWG 16		CK 1,6-ED-1,50ST AG	1663378	
		Single contact, gold-plated	0.14 mm²/AWG 26		CK 1,6-ED-0,37ST AU	1674901	
			0.50 mm²/AWG 20		CK 1,6-ED-0,50ST AU	1672453	
			0.75 mm²/AWG 18		CK 1,6-ED-0,75ST AU	1674914	
			1.00 mm²/AWG 18		CK 1,6-ED-1,00ST AU	1674888	
			1.50 mm²/AWG 16		CK 1,6-ED-1,50ST AU	1674875	
	Rolled pin contacts	Taped, silver-plated	0.14 ... 0.50 mm²/AWG 25 ... 20		CK1,6-BR-0,50ST AG	1884157	
			0.50 ... 1.5 mm²/AWG 20 ... 16		CK1,6-BR-1,50ST AG	1884144	
		Single contact, silver-plated	0.50 mm²/AWG 20		CK 1,6-ER-0,50ST AG	1884092	
			1.50 mm²/AWG 16		CK 1,6-ER-1,50ST AG	1884089	
Crimping tools							
	Description					Type	Ord. No.
	Crimping pliers for turned contacts – CK 1,6 ED ... and CK 2,5 ED ...					CRIMPFOX-1,6/2,5-ED-4,0	1687419
	Crimping pliers for rolled contacts – CK 1,6 ER ... and BR ..., 0.5 - 1.5 mm²					CRIMPFOX-1,6-ER-1,50-AT	1884843

Housings for device connection

Base housings for device connection – Device side								 Web code: #0545
	Description	Size	Module slots	Degree of protection	Pg16		Pg21	
					Type	Order No.	Type	Order No.
	Surface mounting housing with fixing holes	VC 1	2	IP65/IP66/IP67	VC-MP-S1	1884720	-	-
		VC 2	3		-	-	VC-MP-S2	1884733
		VC 3	4		-	-	VC-MP-S3	1884746
		VC 4	5		-	-	VC-MP-S4	1884759
	Coupling housing with enclosed bottom	VC 1	2	IP65/IP66/IP67	VC-MP-K1	1884568	-	-
		VC 2	3		-	-	VC-MP-K2	1884571
		VC 3	4		-	-	VC-MP-K3	1884584
		VC 4	5		-	-	VC-MP-K4	1884597

Housings for connectors

Sleeve housings in accordance with IP65/IP66/IP67, die-cast zinc – Connector side

 Web code: #0532

	Description	Size	Module slots	Thread type	Type	Cylinder head screw	Knurled screw
							Order No.
	Metric	VC 1	2	M20	VC-MP-T1...	1886676	1886634
		VC 2	3	M25	VC-MP-T2...	1886689	1886647
		VC 3	4		VC-MP-T3...	1886692	1886650
		VC 4	5		VC-MP-T4...	1886702	1886663
	Pg	VC 1	2	Pg16	VC-MP-T1...	1884898	1855539
		VC 2	3	Pg21	VC-MP-T2...	1884908	1855542
		VC 3	4		VC-MP-T3...	1884911	1855555
		VC 4	5		VC-MP-T4...	1884924	1855568
	Metric + EMC	VC 1	2	M20	VC-MEMV-T1...	1886553	1886595
		VC 2	3	M25	VC-MEMV-T2...	1886566	1886605
		VC 3	4		VC-MEMV-T3...	1886579	1886618
		VC 4	5		VC-MEMV-T4...	1886582	1886621
	Pg + EMC	VC 1	2	Pg16	VC-MEMV-T1...	1853324	1855131
		VC 2	3	Pg21	VC-MEMV-T2...	1853337	1855144
		VC 3	4		VC-MEMV-T3...	1853340	1855157
		VC 4	5		VC-MEMV-T4...	1853353	1855160

Sleeve housings in accordance with IP67, plastic

	Description	Size	Module slots	Thread type	Type	Cylinder head screw	Knurled screw
							Order No.
	Metric	VC 1	2	M20	VC-K-T1...	1852935	1855097
		VC 2	3	M25	VC-K-T2...	1852948	1855107
		VC 3	4		VC-K-T3...	1852961	1855120
		VC 4	5		VC-K-T4...	1852974	1855133
	Pg	VC 1	2	Pg16	VC-K-T1...	1852930	1855092
		VC 2	3	Pg21	VC-K-T2...	1852943	1855102
		VC 3	4		VC-K-T3...	1852956	1855115
		VC 4	5		VC-K-T4...	1852969	1855128
	Integrated Pg screw connection	VC 1	2	-	VC-K-T1...	-	-
		VC 2	3	Pg29	VC-K-T2...	1583880	-
		VC 3	4		VC-K-T3...	1424368	-
		VC 4	5	-	VC-K-T4...	-	-
	Ribbon cable outlet	VC 1	2	-	VC-K-T1...	1607703	-
		VC 2	3		VC-K-T2...	1607680	-
		VC 3	4		VC-K-T3...	1607677	-
		VC 4	5		VC-K-T4...	1607693	-

Cable glands for one cable

Metric cable glands										 Web code: #0533
										
Thread type	Plastic			Metal			EMC			
	Cable diameter [mm]	Type	Order No.	Cable diameter [mm]	Type	Order No.	Cable diameter [mm]	Type	Order No.	
M20	6 ... 13	G-INS-M20-M68L-PEPDS-LG	1424515	9 ... 13	G-INS-M20-S68N-NNES-S	1411163	7 ... 12.5	G-INSEC-M20-S68N-NCRS-S	1411189	
	10 ... 14	G-INS-M20-M68N-PNES-LG	1424471	11 ... 16	HC-M-KV-M20(11-16)	1645998	-	-	-	
M25	9 ... 17	G-INS-M25-M68L-PEPDS-LG	1424516	11 ... 16	G-INS-M25-M68N-NNES	1411165	-	-	-	
	13 ... 18	G-INS-M25-L68N-PNES-LG	1424472	14 ... 21	HC-M-KV-M25(14-21)	1646007	-	-	-	
Pg cable glands										 Web code: #0534
										
Thread type	With plastic pressure screw			With brass pressure screw			EMC screw connection with iris spring			
	Cable diameter [mm]	Type	Order No.	Type	Order No.	Type	Order No.			
Pg16	4 ... 6.5	VC-K-KV-Pg16(4-6,5)	1854459	VC-M-KV-Pg16(4-6,5)	1853942	-	-	-	-	
	5 ... 8	VC-K-KV-Pg16(5-8)	1853735	VC-M-KV-Pg16(5-8)	1853955	-	-	-	-	
	6.5 ... 9.5	VC-K-KV-Pg16(6,5-9,5)	1853748	VC-M-KV-Pg16(6,5-9,5)	1853968	VC-EMV-KV-Pg16(6,5-9,5/6,5)	1854132	-	-	
	7 ... 10.5	VC-K-KV-Pg16(7-10,5)	1853751	VC-M-KV-Pg16(7-10,5)	1853971	VC-EMV-KV-Pg16(7-10,5/8,5)	1854161	-	-	
	9 ... 13	VC-K-KV-Pg16(9-13)	1853764	VC-M-KV-Pg16(9-13)	1853984	VC-EMV-KV-Pg16(9-13/10,5)	1854174	-	-	
	11.5 ... 15.5	VC-K-KV-Pg16(11,5-15,5)	1854844	VC-M-KV-Pg16(11,5-15,5)	1854857	-	-	-	-	
Pg21	7 ... 10.5	VC-K-KV-Pg21(7-10,5)	1853890	VC-M-KV-Pg21(7-10,5)	1853997	-	-	-	-	
	9 ... 13	VC-K-KV-Pg21(9-13)	1853900	VC-M-KV-Pg21(9-13)	1854006	VC-EMV-KV-Pg21(9-13/9,5)	1854200	-	-	
	9 ... 13	-	-	-	-	VC-EMV-KV-Pg21(9-13/12)	1854213	-	-	
	11.5 ... 15.5	VC-K-KV-Pg21(11,5-15,5)	1853913	VC-M-KV-Pg21(11,5-15,5)	1854035	VC-EMV-KV-Pg21(11,5-15,5/13,5)	1854242	-	-	
	14 ... 18	VC-K-KV-Pg21(14-18)	1853926	VC-M-KV-Pg21(14-18)	1854048	VC-EMV-KV-Pg21(14-18/14,5)	1854255	-	-	
	17 ... 20.5	VC-K-KV-Pg21(17-20,5)	1853939	VC-M-KV-Pg21(17-20,5)	1854051	-	-	-	-	

Cable glands for several cables

Pg cable glands in accordance with IP65

 Web code: #0535



Thread type	With plastic pressure screw			With brass pressure screw	
	Cable diameter [mm]	Type	Order No.	Type	Order No.
Pg16	1 x 3 / 1 x 8	VC-K-KV-Pg16 1x3/1x8	1885376	VC-M-KV-Pg16 1x3/1x8	1885457
	1 x 3 / 1 x 9	VC-K-KV-Pg16 1x3/1x9	1885389	VC-M-KV-Pg16 1x3/1x9	1885460
	1 x 6 / 1 x 8	VC-K-KV-Pg16 1x6/1x8	1885392	VC-M-KV-Pg16 1x6/1x8	1885473
	1 x 5 / 1 x 9	VC-K-KV-Pg16 1x5/1x9	1885402	VC-M-KV-Pg16 1x5/1x9	1885486
	1 x 3 / 2 x 8	VC-K-KV-Pg16 1x3/2x8	1885415	VC-M-KV-Pg16 1x3/2x8	1885499
	1 x 5 / 2 x 6	VC-K-KV-Pg16 1x5/2x6	1885428	VC-M-KV-Pg16 1x5/2x6	1885509
	2 x 6 / 1 x 7	VC-K-KV-Pg16 2x6/1x7	1885431	VC-M-KV-Pg16 2x6/1x7	1885512
	3 x 7	VC-K-KV-Pg16 3x7	1885444	VC-M-KV-Pg16 3x7	1885525
Pg21	1 x 6 / 2 x 9	VC-K-KV-Pg21 1x6/2x9	1885538	VC-M-KV-Pg21 1x6/2x9	1885619
	1 x 8.5 / 1 x 12	VC-K-KV-Pg21 1x8,5/1x12	1885279	VC-M-KV-Pg21 1x8,5/1x12	1854970
	2 x 4.5 / 1 x 13	VC-K-KV-Pg21 2x4,5/1x13	1885282	-	-
	2 x 6 / 2 x 8	VC-K-KV-Pg21 2x6/2x8	1885554	VC-M-KV-Pg21 2x6/2x9	1885635
	2 x 7.2 / 1 x 10.5	VC-K-KV-Pg21 2x7,2/1x10,5	1885567	VC-M-KV-Pg21 2x7,2/1x10,6	1885648
	3 x 7	VC-K-KV-Pg21 3x7	1885570	VC-M-KV-Pg21 3x7	1885651
	3 x 9	VC-K-KV-Pg21 3x9	1885583	VC-M-KV-Pg21 3x9	1885664
	4 x 6.5	VC-K-KV-Pg21 4x6,5	1885596	VC-M-KV-Pg21 4x6,5	1885677
	4 x 8	VC-K-KV-Pg21 4x8	1885606	VC-M-KV-Pg21 4x8	1885680

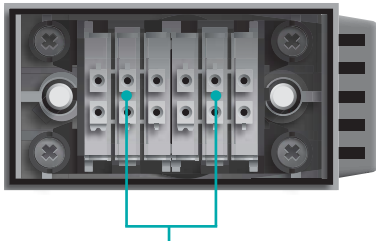
Accessories

Additional products				
	Description	Design	Type	Order No.
	IP40 protective cover	VC 1	VC-SD1	1853670
		VC 2	VC-SD2	1853683
		VC 3	VC-SD3	1853696
		VC 4	VC-SD4	1853706
	IP50 protective cover	VC 1	VC-SD-T1	1886728
		VC 2	VC-SD-T2	1886731
		VC 3	VC-SD-T3	1886744
		VC 4	VC-SD-T4	1886757
	IP50 protective cover	VC 1	VC-SD-A1	1886760
		VC 2	VC-SD-A2	1886773
		VC 3	VC-SD-A3	1886786
		VC 4	VC-SD-A4	1886799
	Coding bolt	Connector side	VC-CB-T	1607884
		Device side	VC-CB-A	1607888
	Unlocking tool	-	EWR	1665075
	Panel mounting flange	-	VC-AF	1852862
	Marking label	-	VC-BZS-WH	1852875
	Coding profile	-	CP-HCC 4	1600027

Configuration examples

Size VC1

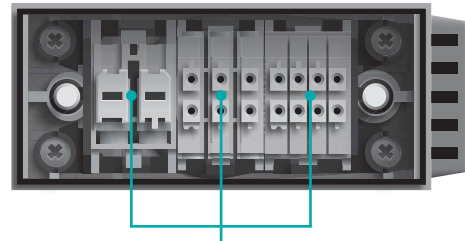
- 2 module slots
- Panel cutout:
19.5^{-0.2} mm x
32.4^{+0.3} mm



2 x 6-pos. signals

Size VC2

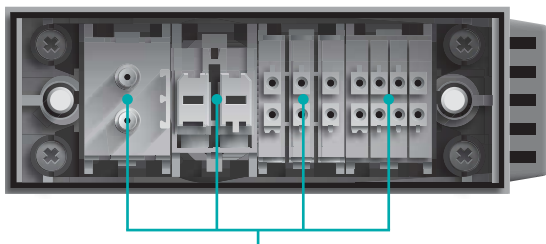
- 3 module slots
- Panel cutout:
19.5^{-0.2} mm x
47.4^{+0.3} mm



1 x 2-pos. power, 1 x 6-pos. signals,
1 x 8-pos. signals

Size VC3

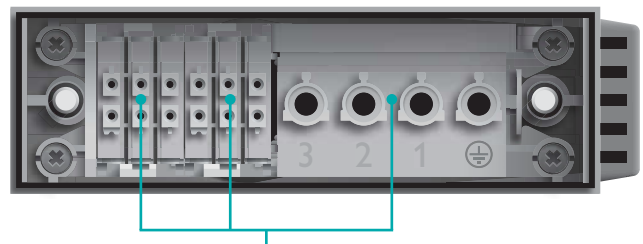
- 4 module slots
- Panel cutout:
19.5^{-0.2} mm x
62.4^{+0.3} mm



1 x 2-pos. data, 1 x 2-pos. power,
1 x 6-pos. signals, 1 x 8-pos. signals

Size VC4

- 5 module slots
- Panel cutout:
19.5^{-0.2} mm x
77.4^{+0.3} mm



2 x 6-pos. signals,
1 x 3+1-pos. power

Configurator

Do you need help configuring your individual rectangular connector?
Our online configurator will help you select the different components.

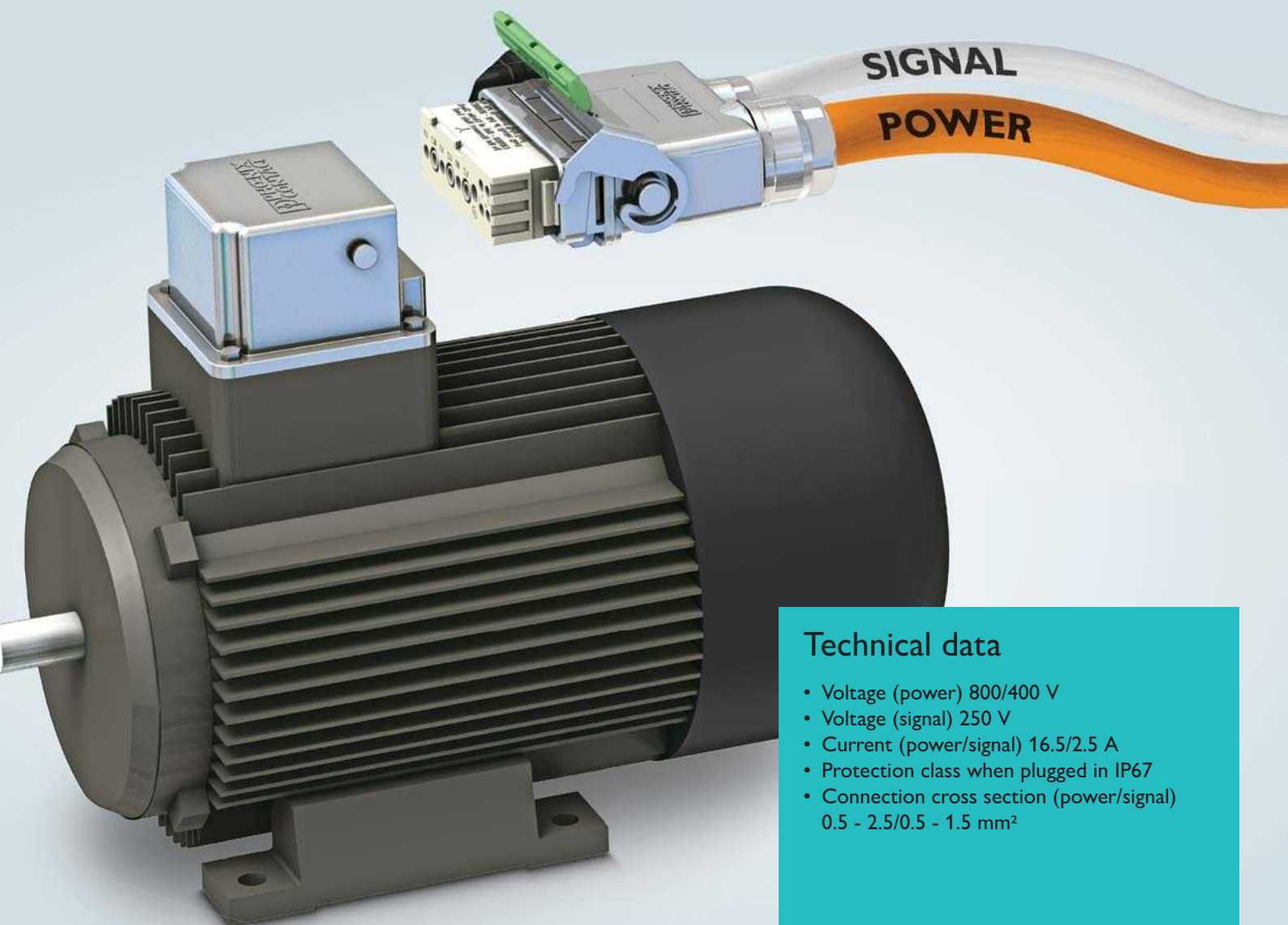
 Web code: #1711



Hybrid connectors for direct motor connection

The HC-MOT hybrid connector combines signals and power in the same housing, which are connected to the contact insert via a Push-in spring connection.

The vibration-resistant locking latch ensures reliable connection, which saves time considerably, especially during servicing. Thanks to the star-delta bridge, it is no longer necessary to preset the drives. Combine HC-MOT and VARIOCON to establish an efficient connection from the motor to the frequency converter.



Technical data

- Voltage (power) 800/400 V
- Voltage (signal) 250 V
- Current (power/signal) 16.5/2.5 A
- Protection class when plugged in IP67
- Connection cross section (power/signal) 0.5 - 2.5/0.5 - 1.5 mm²

Your advantages



Integrated star-delta bridge for quick and easy rewiring.



Simple and robust locking latch plus fast and reliable Push-in spring connection.



Signals and power combined in parallel in the same housing.

Ordering data

i Web code: #0540

Panel mounting bases for drives

Description	Motor-mounted EMC housing	Coated protective cover	Crimp contacts (pin) 1.00 mm		Crimp contacts (pin) 2.00 mm		Crimping pliers for 1 mm/2 mm contacts
			0.14 - 0.5 mm²	0.14 - 1.0 mm²	0.35 - 1 mm²	1.5 - 2.5 mm²	
Type	HC-MOT-AFL-SET	HC-MOT-SD-L-KU	CK 1,0-ED-0,5ST AU	CK 1,0-ED-1,0ST AU	CK 2,0-ED-1,0ST AU	CK 2,0-ED-2,5ST AU	CRIMPFOX-TC MP-1
Order No.	1409053	1409147	1409121	1409082	1409118	1409095	1212620

Sleeve connectors

Description	Sleeve housing with EMC protection	IP54 protective cover	Star-delta bridge	Coding profile
Type	HC-MOT-TML-SET	HC-MOT-SD-FLT-KU-IP54	HC-MOT-ST/DR-BR	CP-HCC 4
Order No.	1409066	1409134	1409150	1600027

Connection technology for the AC infrastructure

Circular connectors from the PRC series are ideal for compact and safe power transmission in outdoor applications. The device, coupler, and field connectors are manufactured from special plastics. They enable countless connection solutions for applications in the field of machine building, telecommunications, new energy sources, and infrastructure. The comprehensive range of accessories and customer-specific versions provides additional flexibility.



Web code:
#1628



Your advantages

- ✓ 3-pos. and 5-pos. versions, enabling high power density in a compact design
- ✓ Developed and certified for indoor and outdoor applications with up to IP69K protection
- ✓ Device connector versions with IPX5 longitudinal water tightness when not inserted

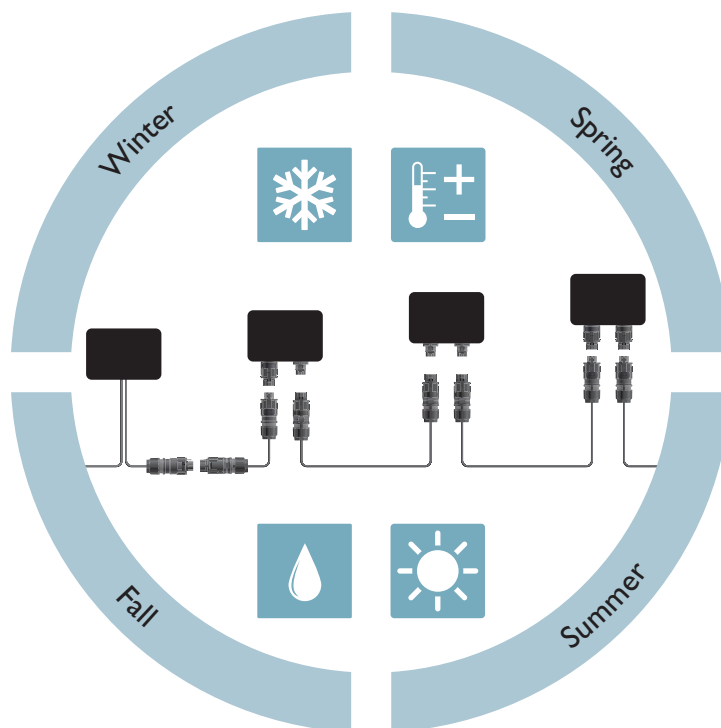
Indoor and outdoor applications

Quick and easy conductor connection on site

The circular connectors from the PRC series offer various connection options for power transmission in indoor and outdoor applications.

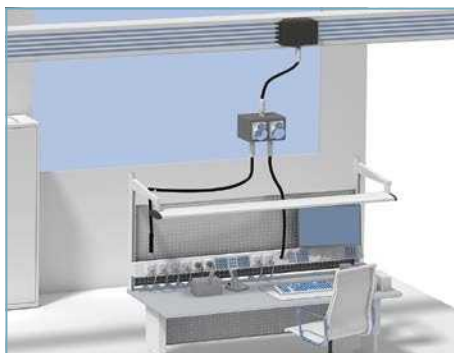
Main features:

- For 1-phase and 3-phase systems
- Currents up to 35 A
- Voltages up to 690 V
- Conductor cross section from 1.5 to 6 mm²
- Degree of protection: IP68 (24 h/2 m) and IP69K
- Color coding
- Can be unlocked by hand



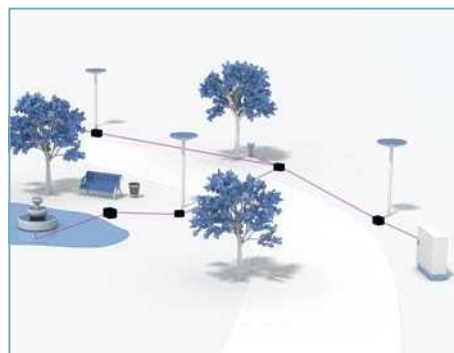
Flexible building cabling

Connectors from the PRC series provide the ideal basis for uniform building cabling. The high-performance connectors are suitable for use in office complexes, production facilities or laboratories, for example. The wide range of applications offered by the PRC series supports and simplifies mixed building use as well as commercial rezoning.



Uniform device interfaces

PRC series connectors for assembly enable connection solutions for various cable cross sections. The connectors can be color coded if required and mounted without special tools. The PRC series therefore speeds up installation and maintenance, as well as the replacement of connected production equipment and tools.



Weatherproof power distribution

UV-resistant and IP-protected connectors from the PRC series offer reliable solutions for power distribution in outdoor applications. The 3- or 5-pos. connectors are suitable for power up to 35 A/690 V. The high-quality, weatherproof materials ensure maximum operational safety even in demanding applications.

PRC circular connectors

Modular PRC device and field connectors								 Web code: #1628
								
Description								
Design number of positions/angle	Field side 45°/90°	Device side 45°/90°	Device side 0°	Plug-in insert 3	Plug-in insert 5	Plug-in insert 3	Plug-in insert 5	
Type	PRC FC-45/90-HSG 8-21	PRC FT25-45/90-HSG	PRC FT25-0-HSG	PRC 3-HEAD-MS6-2	PRC 5-HEAD-MS6-2	PRC 3-HEAD-FS6-1	PRC 5-HEAD-FS6-1	
Order No.	1065798	1065796	1065795	1070200	1070199	1070198	1070197	
PRC device connectors								
								
Description	Device plugs			Contact carriers		Contacts		
Conductor cross section	2.5 mm²	4.0 mm²	6.0 mm²			2.5 mm²	4.0 mm²	6.0 mm²
Cable length	150 mm							
Screw connection	M25							
Connection method	Crimp connection							
Order No. 3-pos.	1409219	1409220	1409221	1409218 (with nut)	1627608 (without nut)	1409207	1409208	1409209
Order No. 5-pos.	1409211	1409212	1409213	1409206 (with nut)	1627609 (without nut)			
PRC field connectors								
								
Description	Coupling, 3-pos.		Coupling, 5-pos.		Connector, 3-pos.		Connector, 5-pos.	
Conductor cross section	1.5 mm² ... 6.0 mm²							
Connection method	Screw connection							
Insertion cycles	Approx. 2000							
Order No. 8.0 ... 12.0 mm	1017636		1017631		1014502		1014522	
Order No. 12.0 ... 16.0 mm	1017634		1017629		1014529		1014506	
Order No. 16.0 ... 21.0 mm	1017633		1017626		1014531		1014505	
Order No. 8.0 ... 21.0 mm	1017635		1017632		1014498		1014530	

Accessories

PRC accessories for color coding

			
Description	Manual release latch for coupling	Coding ring for connector	Nut for device plug
Order No. black	–	1014496	1457937
Order No. gray	1002292	1014457	1049832
Order No. green	1002290	1014456	1049830
Order No. blue	1002293	1014455	1049831

Accessories (protective caps)

		
Description	Connector side	Coupling side
Order No.	1409237	1409236

Tools

			
Description	Screwdriver	Screw pliers	Crimping pliers
Conductor cross section	–	–	2.5 mm² ... 4.0 mm² 4.0 mm² ... 6.0 mm²
Type	SZF 1-0,6X3,5	UNIFOX-WRENCH_DB	CRIMPFOX-1,6/2,5-ED-4,0 CRIMPFOX-4,0-ED-6,00
Order No.	1204517	1212841	1687419 1205859

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Different colors, shapes, markings, and customized cable assemblies provide you with a wide range of options. In addition to customer-specific adaptations, we also develop new products tailored to your individual needs. We provide you with help and support from the initial concept and design-in all the way to production and quality assurance.

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Whether you need individual colors, complete cable assemblies, special printing, or a specific number of contacts, we will be happy to help you find solutions adapted to your specific requirements.

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In addition to customer-specific adaptations, we also develop new products tailored to your individual needs. We will be there every step of the way to provide you with help and support, from the initial concept and design-in all the way to production and quality assurance. Take advantage of our extensive development and manufacturing expertise for your individual solution.

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During the design-in process, we support you with state-of-the-art selection guides, comprehensive product and technology information, and advice tailored to your individual requirements – anywhere in the world.





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