



PLUSCON heavy
Heavy-duty plug-in
connectors HEAVYCON

HEAVYCON – heavy-duty plug-in connectors

Heavy-duty plug-in connectors in the HEAVYCON series can be used in extremely harsh conditions such as dirt, water, vibrations, and high mechanical strain and are tight up to IP69K degree of protection. The rugged plastic and metal housings are available with single or double locking latch, or with screw or bayonet locking. In addition to terminal adapters, contact inserts with different connection methods are available in versions with a fixed number of positions and as modules for side-by-side mounting.



Make use of these benefits

The advantages

Your benefits



Robust plug-in connector for the most demanding requirements

- Housing with IP65 to IP69K protection
- Use of corrosion-resistant aluminum die-cast alloys or polyamide

- Can be used in particularly harsh environments, e.g., the chemical industry, rail, offshore, the automotive industry, machine and system engineering
- Ensures effective protection (e.g., against corrosion, EMC, and strain-cracks)
- Reliable and safe operation



Housing with single and double locking latch

- Sleeve housings, panel/box mounting bases, and coupling housings with all locking methods

- Space-saving
- Ease of use
- Saves a significant amount of time
- Replaceable latch
- Flexible mounting



ADVANCE housings

- No panel mounting base required
- Compatible with standard panel cutouts
- Bayonet or screw locking
- Up to 50% more cabling space

- Cost savings
- Space-saving design
- Convenient cabling
- Fast and reliable housing locking



A wide range of contact inserts and terminal adapters

- With screw, crimp, spring-cage, push-in, and IDC displacement connection
- High-quality materials

- Suitable for conductors with or without splicing protection
- Quicker and more secure connection of conductors
- Long-term stability
- Tool-free connection
- Suitable for solid and stranded conductors



Modularity of the contact inserts

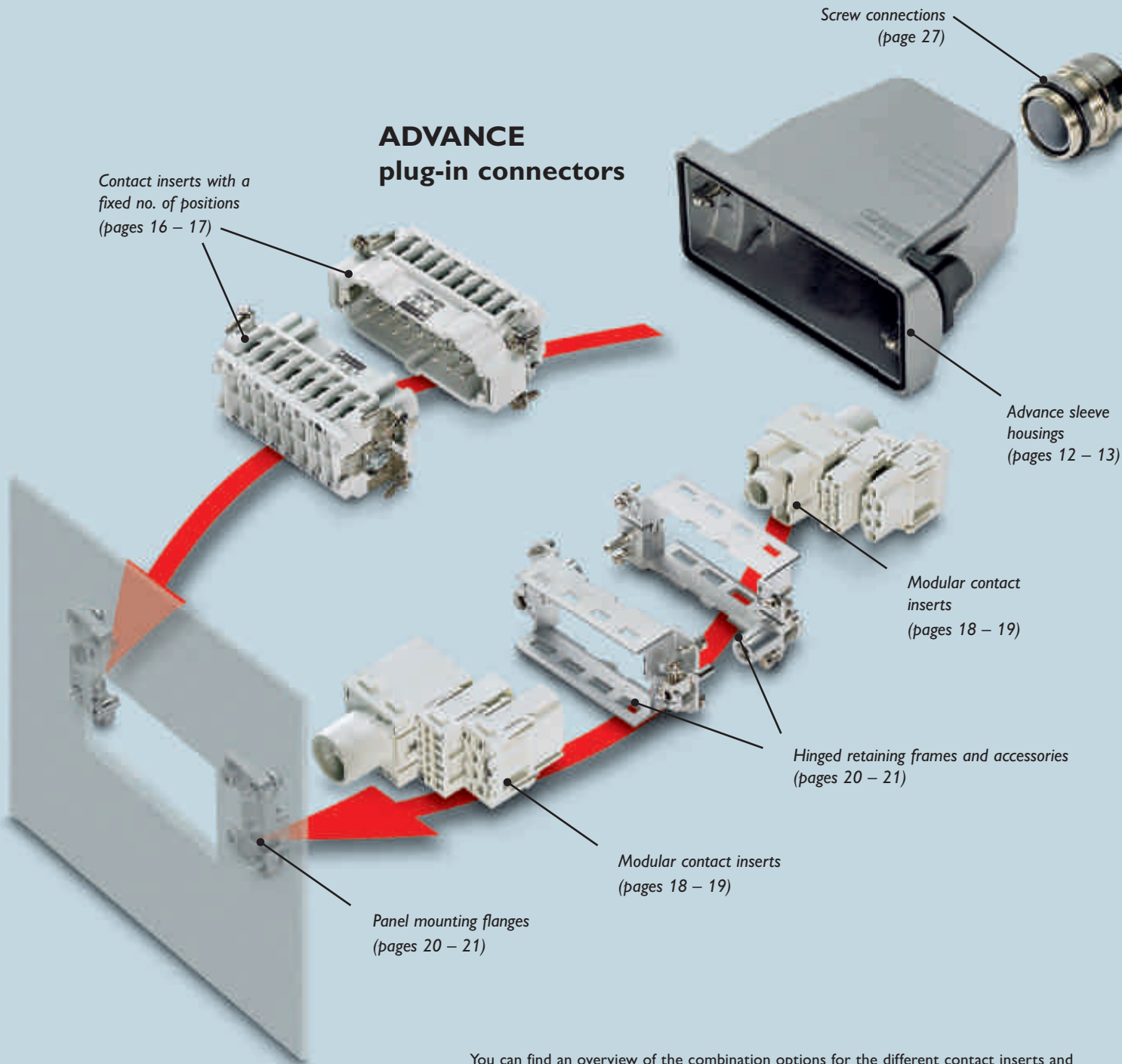
- Up to six different contact inserts in one HEAVYCON housing

- Efficient and individual design of contact inserts
- Transmit data, signals, and power via one plug-in connector

System configuration, HEAVYCON plug-in connectors

ADVANCE plug-in connectors are characterized by the fact that the supporting base element is not required when using an ADVANCE housing with panel mounting flange. The ADVANCE housings with bayonet or screw locking are suitable for the most stringent requirements, such as

particularly aggressive atmospheres and sensitive interfaces. The range is further extended by the fact that modular contact inserts or those with a fixed number of positions can be used, e.g., to transmit signals, data, and power in one plug-in connector.

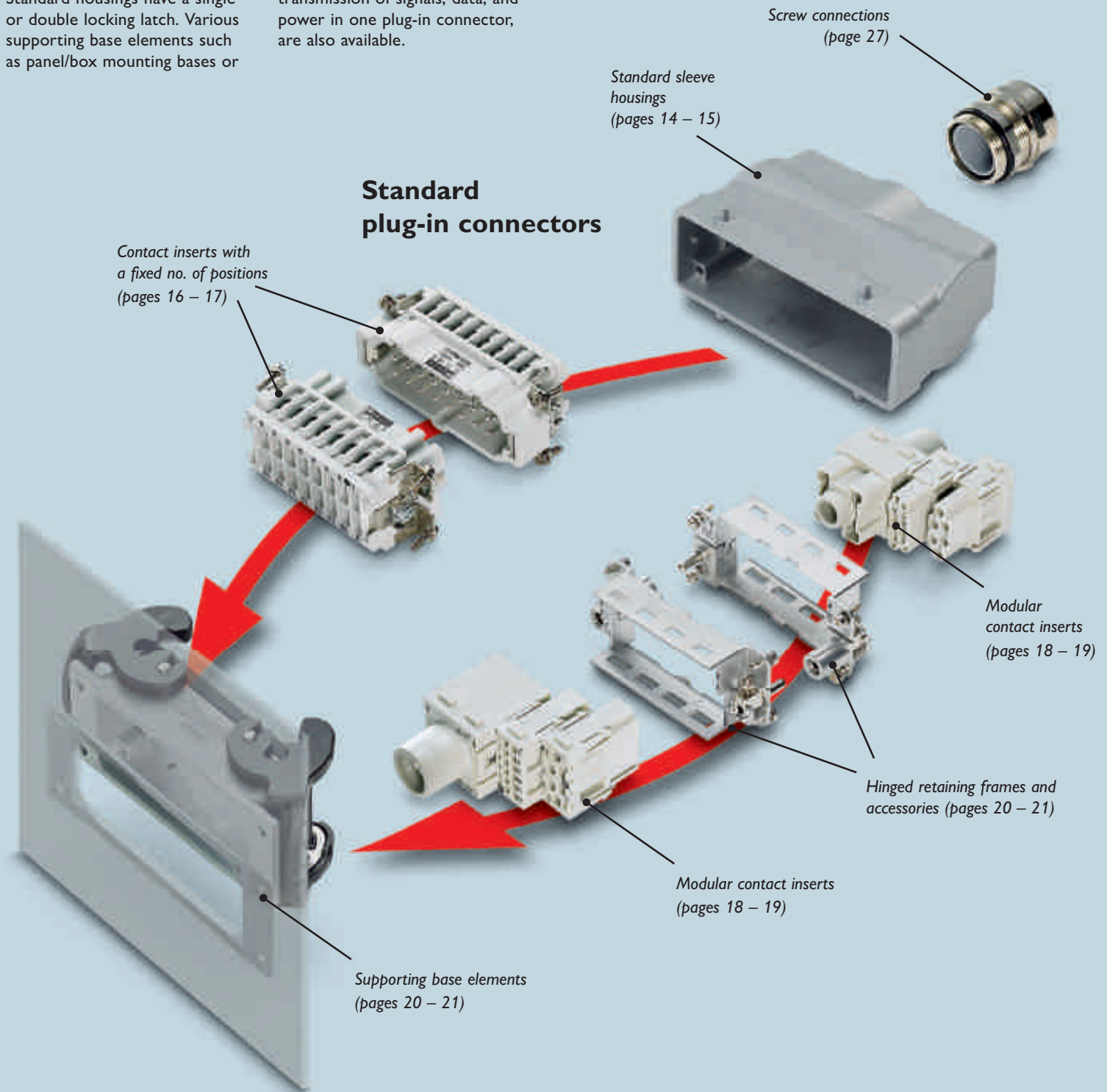


You can find an overview of the combination options for the different contact inserts and housings in the cross-reference list on pages 10/11. Further information on the HEAVYCON range can be found in the current PLUSCON catalog and at www.phoenixcontact.net/eshop.

The rugged metal housings of the **standard plug-in connectors** feature an extremely resistant epoxide powder coating, which is resistant to dirt, water, and high mechanical stresses. Standard housings have a single or double locking latch. Various supporting base elements such as panel/box mounting bases or

coupling housings are available for a range of requirements. In addition to contact inserts with a fixed number of positions, modular contact inserts for individual assembly, e.g., for the transmission of signals, data, and power in one plug-in connector, are also available.

Standard plug-in connectors



The ADVANCE range

HEAVYCON ADVANCE heavy-duty plug-in connectors with screw and bayonet locking are particularly suitable for demanding requirements in aggressive environments. The panel mounting base usually used has been replaced by a panel mounting flange, thereby reducing mounting and material costs.

The new ADVANCE plastic housing with molded cable glands offers additional potential savings. The ADVANCE range is rounded off with the new EEE supporting base elements for universal use.

ADVANCE plastic housing

The new plastic housing made from polyamide is equipped with screw locking and a molded screw connection. A replaceable marking label simplifies marking. The rugged design meets the requirements for IP67 protection.

The uniform panel mounting flanges for ADVANCE housing ensure less material variance and simplified logistics. Eliminating the panel mounting base and locking latch has meant that significantly more cabling space is available in the housing. Special metal inlays in the housing ensure capacitive PE contact and conformance with standards.

ADVANCE plastic housing is available in sizes B6, B10, B16, and B24. Like all HEAVYCON housing, it can accommodate both standard and modular HEAVYCON contact inserts and terminal adapters. Areas of application for ADVANCE plastic housing include machine and system engineering, the automotive industry, control cabinet engineering or wind power plants, for example.

The ADVANCE range in die-cast aluminum



Standard version, STA

For extremely demanding requirements, e.g., in the automotive industry, in machine and system engineering, and in measurement and control technology

- Housing material: aluminum die-cast alloy
- Sealing material: NBR
- Degree of protection of screw locking: IP68/IP69K, Degree of protection of bayonet locking: IP67



Version for increased environmental requirements, EUA

For particularly aggressive environmental conditions and harsh climatic atmospheres in all areas of application, e.g., chemicals, railways

- Housing material: corrosion-resistant aluminum die-cast alloy
- Sealing material: Viton
- Degree of protection of screw locking: IP68/IP69K, Degree of protection of bayonet locking: IP67



Version for offshore and EMC applications, EEE

- Housing material: aluminum die-cast alloy
- Resistant to salt water, with EMC-conductive NBR seal
- Degree of protection of screw locking: IP68/IP69K, Degree of protection of bayonet locking: IP67

Supporting base elements for offshore and EMC applications

New to the range are supporting base elements for particularly demanding requirements, such as areas subject to electromagnetic interference. Coupling housings, box mounting bases, and panel mounting bases are available.

Contact inserts with a fixed number of positions and modular contact inserts

Contact inserts are available both as versions with a fixed number of positions, even for mixed assembly, and as modular contact inserts for the widest range of parameters, such as number of positions, connection cross section, rated voltage, and rated current. Contact inserts are available for the A/B/BB/D/DD/HS/HV/K/Q, and M series. Inserts with screw, crimp, spring-cage, push-in, and IDC displacement connection are available.

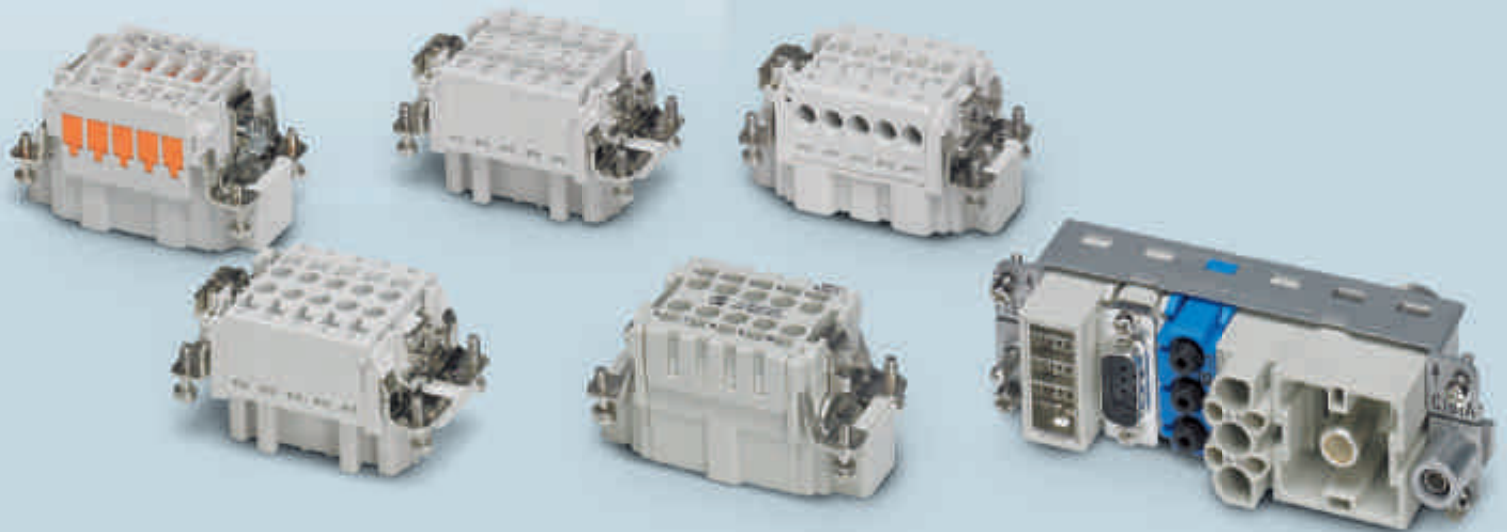


Improved PE contacting

The use of tension sleeve technology for the PE connection ensures maximum reliability. In comparison with the pull-out forces of PE head contact terminal points, the conductor pull-out forces are many times higher.

Quick keying

It is often necessary to protect identical plug-in connectors which are located next to each other from being interchanged. In contrast to previous keying methods, such as keying bolts, pins or sockets, HEAVYCON contact inserts are quickly keyed by snapping in keying profiles.



Connection technologies for HEAVYCON contact inserts



Screw connection

The distinguishing features of this connection, which is designed for the most stringent requirements, are its maintenance-free conductor connection and the frequently-required multi-conductor connection. Copper cables can be clamped without pretreatment or with ferrules. The current-carrying metal parts of the screw connections are made of high-grade, strain-crack,

and corrosion-proof copper alloys.

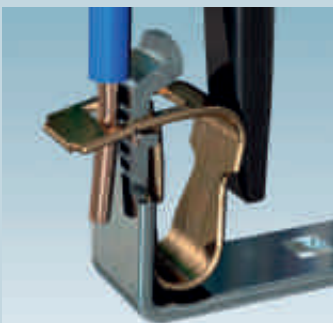
This eliminates the possibility of electrolytic corrosion in the presence of humidity and the risk of rusting and their consequences. A further advantage is the low temperature rise due to good electrical conductivity.



Crimp connection

The wire/crimp contact connection is established using a crimping tool suitable for both the conductor cross section and the crimp contact by the deliberate deformation of the crimping area of the crimp contact, and the wire. The wire is stripped, the crimp contact positioned in the crimping tool, the wire inserted, and the crimping tool closed. Done!

The crimping method results in consistent crimp quality and therefore constantly low contact resistances. Snapped-in crimp contacts in the contact inserts can be released using a contact removal tool.



Push-in connection

Stranded conductors with splicing protection or solid conductors can be directly inserted into the connection without tools. A screwdriver is only required for the connection of smaller cross sections and to release the conductor. The connection space is opened using the screwdriver. The push-in connection provides easy handling, extremely short connection time,

and a gas-tight, vibration- and shock-proof connection. All metal parts of the connection are made of corrosion-resistant materials.



Spring-cage connection

The spring-cage connection contains a spring which pushes the stripped conductor against a power rail. After the conductor has been inserted into the clamping space, the screwdriver which was required for opening is removed and the conductor automatically makes contact. This makes the contact force of spring-cage terminal blocks from Phoenix Contact user-independent.

The connection is vibration-resistant, gas-tight, has long-term stability, and thereby high functional reliability – with or without splicing protection. The front connection, with the conductor and screwdriver coming from the same direction, ensures easy operation.



IDC displacement connection

With this connection method, an unstripped wire is guided into the connection space in front of the insulation displacement contact of the QUICKON connection and then levered into the gap using a screwdriver, thereby severing the conductor insulation and creating a gas-tight contact between the wire and contact. Done!

This means that the wire does not have to be stripped in advance, which reduces the connection time by at least 60%. With this method, wires can be connected up to 10 times. The used wire end should be cut off before connecting again.

System cross-reference list: HEAVYCON housings/HEAVYCON contact inserts

The **system cross-reference list** illustrates in a simple manner which contact insert matches which housing type. **The top rows describe the contact insert** according to the number of positions, voltage, current, and connection method. **The marking in the columns denotes the matching housing type.**

Notes:

- Plug-in connectors may only be operated when the power is switched off.
- Type B/D40/D64 terminal adapters can be used in the panel mounting bases B6 to B24.



Series	A					B						BB					
	3	4	10	16	32	6	10	16	24	32	48	10	18	32	46	64	92
Number of positions																	
Size	D07	D07	D15	D25	D50	B06	B10	B16	B24	B32	B48	B06	B10	B16	B24	B32	B48
Rated voltage	230/400		250			500						500					
Rated current	10		10			16						16					

Connection methods:

UT = Screw	UT					UT											
CT = Crimp	CT					CT						CT					
DT = Push-in						DT											
Z = Spring-cage						Z											
Q = QUICKON						Q											
L = Fiber optics																	
A = Axial screw																	
P = Pneumatics																	

* Type D housing and type K contact inserts can be found in the current PLUSCON-catalog and at www.phoenixcontact.com

Series	A					B						BB					
	D07	D07	D15	D25	D50	B06	B10	B16	B24	B32	B48	B06	B10	B16	B24	B32	B48
Size																	
Housing																	
Designation																	
Page	17					16						16					

Advance	Designation	Page																			
			D07	D07	D15	D25	D50	B06	B10	B16	B24	B32	B48	B06	B10	B16	B24	B32	B48		
	STA	EUA	EEE	PL																	
B06	.	.	.	.		.								.
B10	.	.	.	.			.								.
B16	.	.	.	.				.								.
B24	.	.	.	.					.								.
B32				.														.			

B series	Designation	Page																	
			D07	D07	D15	D25	D50	B06	B10	B16	B24	B32	B48	B06	B10	B16	B24	B32	B48
B06	.					.								.					
B10	.						.								.				
B16	.							.								.			
B24	.								.								.		
B32	.									.								.	
B48	.										.								.

D series	Designation	Page																	
			D07	D07	D15	D25	D50	B06	B10	B16	B24	B32	B48	B06	B10	B16	B24	B32	B48
D07	.				.	.													
D15	.						.												
D25	.							.											
D50	.								.										

HEAVYCON contact inserts



D

DD

HV

HS

Q

K

M

7	8	15	25	40	2x25	64	2x40	2x64	24	42	72	108	2x72	2x108	3	6	10	16	6	12	2/0	5/0	7/0	12/0	Variable			Variable			
D07	D07	D15	D25	B16	D50	B24	B32	B48	B06	B10	B16	B24	B32	B48	B10	B16	B24	B24	B16	B32	D07	D07	D07	D07	B10	B16	B24	B06	B10	B16	B24

250	50	250				250				660				500				400	230	400	400	160-830			50-5000		
10	10	10				10				16				35				40	16	10	10	10-80			5-200		

CT

CT

UT

UT

CT

UT

CT

Z

L

L

A

A

L

A

P

D

DD

HV

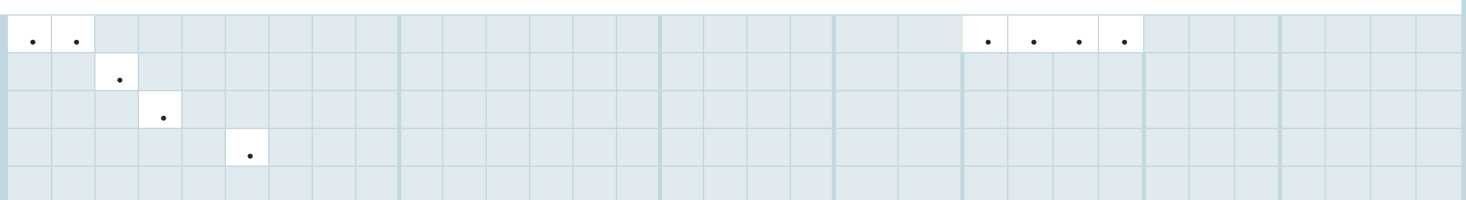
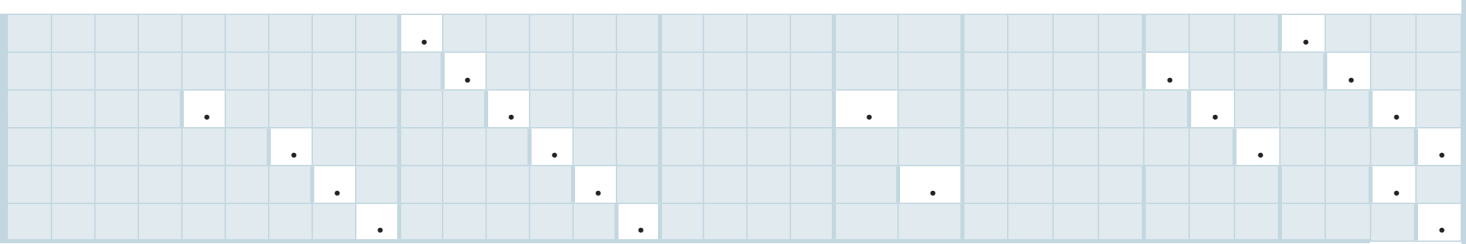
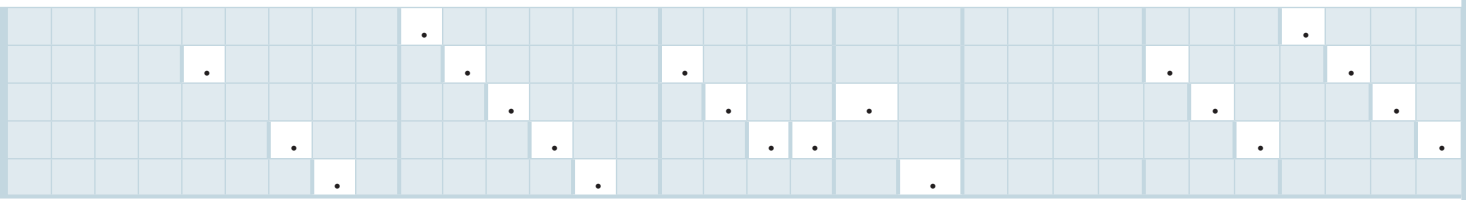
HS

Q

K

M


D07	D07	D15	D25	B16	D50	B24	B32	B48	B06	B10	B16	B24	B32	B48	B10	B16	B24	B24	B16	B32	D07	D07	D07	D07	B10	B16	B24	B06	B10	B16	B24						
				17								16								16								17				*			18/19		




Further information on the HEAVYCON range can be found in our current PLUSCON catalog and at www.phoenixcontact.net/eshop.


ADVANCE sleeve housings with screw locking with IP68/IP69K protection


Standard version (STA)

Screw connection	6	10	16	24
Sleeve housings				
	1 x M20	1604052		
	1 x M25	1604117	1690040	1644630
	1 x M32		1690121	1690202 1690367
	1 x M40			1690286 1690448
	1 x M50			

	1 x M20	1604081		
	1 x M25	1604146	1690082	1644643
	1 x M32		1690163	1690244 1690406
	1 x M40			1690325 1690480
	1 x M50			


Version for increased environmental requirements (EUA)


	6	10	16	24
	1604049			
	1604104	1690037		
		1690118	1690192	1690354
			1690273	1690435

	1604078			
	1604133	1690079		
		1690150	1690231	1690396
			1690312	1690477


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Version for offshore and EMC applications, EEE


Screw connection	6	10	16	24	32	
Sleeve housings						
	1 x M20	1580480				
	1 x M25	1408229	1580486			
	1 x M32	1580477	1580483	1587661	1580504	1580516
	1 x M40			1580507	1460359	1580518
	1 x M50					1580522

	1 x M20	1587645				
	1 x M25	1460356	1587658			
	1 x M32		1460357	1587674	1587687	1580517
	1 x M40			1460358	1460360	1580519
	1 x M50					1580521


Box mounting bases

	2 x M20	1408630	1408737		
	2 x M25	1408658	1408753	1408834	1408931
	2 x M32			1408850	1408957
	2 x M40				1408973

Coupling housings


	1 x M20	1408685	1408782		
	1 x M25	1408698	1408795	1408889	1408986
	1 x M32			1408892	1408999
	1 x M40				1409008

Basic housings

		1408614	1408711	1408818	1408915

Plastic version (PL)

	6	10	16	24
	1404222			
	1404225	1404227		
		1404229	1404231	1404235
			1404233	1404238

	1404224			
	1404226	1404228		
		1404230	1404232	1404237
			1404234	1404239

The box/panel mounting bases and coupling housings can be used with all ADVANCE housings.

Standard housings with single locking latch with IP65 protection

		Screw connection	B6	B10	B16	B24	B48			Screw connection	B6	B10	B16	B24	B48			
Sleeve housings																		
		1 x M20	1460339	1460034					1 x Pg13.5	1460340								
		1 x M25	1460258	1460039	1460100	1460189				1 x Pg16	1460341	1460036						
		1 x M32			1460095	1460297				1 x Pg21			1460101	1460190				
		1 x M25	1460027	1460054					1 x Pg29				1460293					
		1 x M32	1460029	1460056	1460124	1460212	1647349		1 x Pg21	1460021	1460048	1460118	1460342					
		1 x M40			1460126	1460214	1647310		1 x Pg29	1460023	1460050	1460120	1460207	1675159				
		1 x M50							1 x Pg36						1675175			
			1 x M20	1460346	1460035					1 x Pg13.5	1460348							
			1 x M25	1460347	1460040	1460102	1460191				1 x Pg16	1460349	1460041					
			1 x M32			1460109	1460192				1 x Pg21			1460103	1460193			
		1 x M25	1460028	1460055					1 x Pg29				1460194					
		1 x M32	1460030	1460057	1460125	1460213	1647336		1 x Pg21	1460022	1460049	1460119	1460206					
		1 x M40			1460127	1460215	1647323		1 x Pg29	1460024	1460051	1460121	1460208	1675162				
		1 x M50							1 x Pg36						1675188			
									1 x Pg42					1460300				
Box mounting bases																		
			1 x M20	1604721	1646269					1 x Pg16	1675214	1673449						
	1 x M25		1604722	1604749	1604784	1646337				1 x Pg21			1673698	1674134				
		1 x M25	1604725	1646395					1 x Pg21	1678114	1677636	1677869	1677966					
		1 x M32	1646845	1646418	1646299	1645752	1604875		1 x Pg29	1678127	1677649	1677843	1677979					
		1 x M40			1646311	1645765												
		2 x M20	1604723	1646272					2 x Pg16	1675230	1673452							
		2 x M25	1604724		1604785	1646340				2 x Pg21			1673708	1674147				
		2 x M25	1460195	1646285	1460166				2 x Pg21	1678130	1677652	1677872	1677982					
		2 x M32	1646858	1646421	1646308	1604832	1460228		2 x Pg29	1678143		1677856	1677995	1675120				
		2 x M40			1646324	1645778	1604876		2 x Pg36						1460248			
	Coupling housings																	
			1 x M20	1460137	1460316					1 x Pg13.5	1460168							
1 x M25					1460267					1 x Pg16		1460287						
1 x M32					1460264	1460229				1 x Pg21			1460198					
		1 x M25	1460283	1460291					1 x Pg29				1460226					
		1 x M32	1460284	1460292	1460172	1460325			1 x Pg21	1460280	1460260	1460306						
		1 x M40			1460309	1460326			1 x Pg29	1460281	1460289	1460307	1460250					
								1 x Pg36										
Panel mounting bases																		
			1771134	1771338	1771590	1771930	1772175											
			1771147	1771354	1771613	1771943	1772188											
			1645464	1645477	1645480	1645493												






Standard housings with double locking latch with IP65 protection

		Screw connection	B10	B16	B24	B32			Screw connection	B10	B16	B24	B48		
Sleeve housings															
		1 x M20	1460061						1 x Pg16	1460063					
		1 x M25	1460066	1460128	1460218				1 x Pg21		1460129				
		1 x M32		1460134	1460222				1 x Pg29			1460332			
		1 x M25	1460080						1 x Pg21	1460074	1460146	1460350			
		1 x M32	1460082	1460155	1460243	1645383			1 x Pg29	1460076	1460148	1460239	1675081		
		1 x M40		1460157	1460245	1647307			1 x Pg36				1460138		
		1 x M50				1460197			1 x Pg42				1460179		
			1 x M20	1460062					1 x Pg16	1460068					
			1 x M25	1460067	1460130	1460219				1 x Pg21		1460131	1460224		
			1 x M32		1460160	1460223				1 x Pg29					
		1 x M25	1460081						1 x Pg21	1460075	1460147	1460238			
		1 x M32	1460083	1409354	1409367	1645150			1 x Pg29	1460077	1460149	1460240	1675094		
		1 x M40		1460158	1460246	1645451			1 x Pg36				1644818		
		1 x M50				1585980			1 x Pg42				1460180		
Box mounting bases															
			1 x M20	1604752					1 x Pg16	1673481					
			1 x M25	1460152	1604788	1604835				1 x Pg21		1673740	1674176		
	1 x M32			1604789					1 x Pg29		1678428				
		1 x M25	1604755						1 x Pg21	1677717	1677924	1678046			
		1 x M32	1604756	1604793	1604836	1604867			1 x Pg29	1678415	1460167	1678402	1675036		
		1 x M40			1645419										
		2 x M20	1604753						2 x Pg16	1673494					
		2 x M25	1604754	1604790	1646353				2 x Pg21		1673753	1674189			
		2 x M32		1604791					2 x Pg29		1678457				
		2 x M25	1604757						2 x Pg21	1677720	1677937	1678059			
		2 x M32	1645820	1604794	1604837	1604868			2 x Pg29	1678444	1460187	1678431	1675049		
		2 x M40		1460169	1645723	1604869									
Coupling housings															
		1 x M20	1460151					1 x Pg16	1460042						
		1 x M25		1460089					1 x Pg21		1460217				
		1 x M32		1460093	1460276				1 x Pg29			1460251			
		1 x M25	1460301	1460315					1 x Pg21	1460298	1460313	1460329			
		1 x M32	1460302	1460312	1460335	1647284			1 x Pg29	1460299	1460314	1460330			
		1 x M40			1460336	1647297									
Panel mounting bases															
			1771325	1771587	1771927	1775693									

Further information on the HEAVYCON range can be found in our current PLUSCON catalog and at www.phoenixcontact.net/eshop.


Contact inserts with a fixed number of positions




	Series	Connec- tion	Connection cross section	Rated current	Rated voltage	Housing size Number of positions	B06	B10	B16	B24	B32	B48	
							6	10	16	24	32	48	
	B	Screw	UT	0.5 - 2.5 mm ²	16 A	500 V	Female	1648128	1648186	1648241	1648306	1648241	1648306
							Male	1648115	1648173	1648238	1648296	1648238	1648296
		Crimp CK 2.5	CT	0.5 - 4.0 mm ²	16 A	500 V	Female	1648160	1648225	1648283	1648348	1648283	1648348
							Male	1648157	1648212	1648270	1648335	1648270	1648335
		Push-in	DT	0.5 - 2.5 mm ²	16 A	500 V	Female	1648144	1648209	1648267	1648322	1648267	1648322
							Male	1648131	1648199	1648254	1648319	1648254	1648319
IDC	QT	0.34 - 2.5 mm ²	16 A	400 V	Female	1605556	1605569	1605572	1605585	1605572	1605585		
					Male	1605611	1605624	1605637	1605640	1605637	1605640		
Spring	ZF	0.5 - 4.0 mm ²	16 A	500 V	Female	1687862	1687888	1687901	1687927	1687901	1687927		
					Male	1687859	1687875	1687891	1687914	1687891	1687914		
							10	18	32	46	64	92	
	BB	Crimp CK 2.5	CT	0.5 - 4.0 mm ²	16 A	500 V	Female	1687435	1687451	1687477	1687493	1687477	1687493
							Male	1687448	1687464	1687480	1687503	1687480	1687503
									40	64	80	128	
	D	Crimp CK 1.6	CT	0.14 - 2.5 mm ²	10 A	250 V	Female	–	–	1584428	1584444	1584428	1584444
							Male	–	–	1584415	1584431	1584415	1584431
							24	42	40	64	80	128	
	DD	Crimp CK 1.6	CT	0.14 - 2.5 mm ²	10 A	250 V	Female	1584046	1584062	1584091	1584130	1584091	1584130
							Male	1584033	1584059	1584075	1584114	1584075	1584114
	HV	Screw	UT	0.5 - 2.5 mm ²	16 A	660 V	Female	–	1773323	1773365	1773404	–	–
							Male	–	1773310	1773352	1773394	–	–
		Crimp CK 2.5	CT	0.5 - 4.0 mm ²	16 A	660 V	Female	–	1773349	1773381	1773420	–	–
							Male	–	1773336	1773378	1773417	–	–
									6	12			
	HS	Screw	UT	0.5 - 6.0 mm ²	35 A	500 V	Female	–	–	1773132	–	1773132	–
							Male	–	–	1773129	–	1773129	–
	BAV	Screw	UT	0.5 - 2.5 mm ²	16 A	500 V	Female, PE left	1648018	1648030	1648042	1648054	–	–
							Female, PE right	1648066	1648078	1648090	1648102	–	–
							Male, PE left	1648024	1648036	1648048	1648060	–	–
		Push-in	DT	0.5 - 2.5 mm ²	16 A	500 V	Female, PE left	1648377	1648416	1648458	1648490	–	–
							Female, PE right	1648351	1648393	1648432	1648474	–	–
							Male, PE left	1648380	1648429	1648461	1648500	–	–
Male, PE right	1648364	1648403	1648445	1648487	–	–							
									40	64			
	DAV	Screw	UT	0.5 - 2.5 mm ²	10 A	250 V	Female, PE left	–	–	1584253	1584295	–	–
							Female, PE right	–	–	1584279	1584321	–	–
							Male, PE left	–	–	1584240	1584282	–	–
		Push-in	DT	0.5 - 2.5 mm ²	10 A	250 V	Male, PE right	–	–	1584266	1584318	–	–
							Female, PE left	–	–	1580147	1774869	–	–
							Female, PE right	–	–	1580163	1774526	–	–
Male, PE left	–	–	1580150	1774872	–	–							
Male, PE right	–	–	1580176	1774513	–	–							





							Housing size	D7	D7	D15	D25	D50	
							Number of positions	3	4	10	16	32	
	A	Screw	UT	0.5 - 2.5 mm ²	16 A	500 V	Female	1773093	1774908	1773077	1677005	1677005	
								–	–	–	–	1677047	
								1773080	1774911	1773051	1677021	1677021	1677063
		Crimp	CT	0.5 - 4.0 mm ²	10 A	250 V	Female	–	–	1676989	1677018	1677018	1677050
	–						–	–	–	1677034	1677034	1677076	
							7	8	15	25	50		
	D	Crimp	CT	0.14 - 2.5 mm ²	10 A	250 V	Female	1584347	1584363	1584389	1584402	1584402	
								–	–	–	–	1584402	
								1584334	1584350	1584376	1584392	1584392	
								–	–	–	–	1584392	
							2						
	Q	Axial screw	A	4.0 - 10.0 mm ²	40 A	400 V	Female	1586264	–	–	–	–	
								–	–	–	–	–	
								1586277	–	–	–	–	
								–	–	–	–	–	
							5						
	Q	Crimp	CT	0.14 - 2.5 mm ²	16 A	230/400 V	Female	1687820	–	–	–	–	
								–	–	–	–	–	
								1687817	–	–	–	–	
								–	–	–	–	–	
							7						
	Q	Crimp	CT	0.5 - 2.5 mm ²	10 A	400 V	Female	1408588	–	–	–	–	
								–	–	–	–	–	
								1408575	–	–	–	–	
								–	–	–	–	–	
							12						
	Q	Crimp	CT	0.5 - 2.5 mm ²	10 A	400 V	Female	–	–	–	–	–	
								–	–	–	–	–	
								1409422	–	–	–	–	
								–	–	–	–	–	



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Modular contact inserts

Number of contacts	1	1	2	2
Connection	Axial screw	Axial screw	Axial screw	Axial screw
				
Current	200 A	200 A	100 A	70 A
Voltage	1000 V	1000 V	1000 V	1000 V
Cable diameter	40 - 70 mm ²	25 - 40 mm ²	16 - 35 mm ²	14 - 22 mm ²
Male	1636897	1637171	1605001	1585731
Female	1636884	1637168	1605000	1585728
Number of contacts	2	2	2	3
Connection	Axial screw	Axial screw	Crimp	Crimp
				
Current	70 A	40 A	40 A	40 A
Voltage	1000 V	1000 V	1000 V	500 V
Cable diameter	6 - 16 mm ²	2.5 - 8 mm ²	1.5 - 10 mm ²	1.5 - 10 mm ²
Male	1585715	1679359	1587519	1645972
Female	1585702	1679346	1587506	1645969
Number of contacts	3/4	4	2	6
Connection	Crimp/crimp	Crimp	Crimp	Crimp
				
Current	40/10 A	40 A	16 A	16 A
Voltage	830 V	830 V	2900/5000V	830 V
Cable diameter	1.5 - 6 mm ² /0.14 - 2.5 mm ²	1.5 - 6 mm ²	25 - 40 mm ²	0.5 - 4 mm ²
Male	1636897	1637171	1605001	1585731
Female	1636884	1637168	1605000	1585728
Number of contacts	6	20	5	8
Connection	Crimp	Crimp	Spring-cage	Crimp
				
Current	16 A	16 A	16 A	16 A
Voltage	500 V	500 V	400 V	400 V
Cable diameter	0.5 - 4 mm ²	0.14 - 2.5 mm ²	0.14 - 2.5 mm ²	0.14 - 4 mm ²
Male	1663462	1636936	1647721	1605003
Female	1663459	1636923	1647718	1605002

Number of contacts	12	17	25
Connection	Axial screw	Axial screw	Axial screw
			
Current	10 A	10 A	4 A
Voltage	250 V	160 V	50 V
Cable diameter	0.14 - 2.5 mm ²	0.14 - 2.5 mm ²	0.09 - 0.5 mm ²
Male	1663323	1636486	1605005
Female	1663310	1636473	1605004

Number of contacts	2	9	2	8
Connection	EMC	Crimp	Profibus RS-485	Ethernet CAT5
				
Current	10 A	5 A	5 A	5 A
Voltage	50 V	50 V	50 V	50 V
Cable diameter	0.14 - 2.5 mm ²	0.09 - 0.5 mm ²	0.09 - 0.5 mm ²	0.09 - 0.5 mm ²
Male	1405518	1647543	1636444	1405520
Female	1405519	1647530	–	1405521

Number of contacts	4	4
Connection	Co-ax	Co-ax
		
Current	1.5 A	1.5 A
Voltage	50 V	50 V
Cable diameter	50 Ohm	75 Ohm
Male	1405515	1405517
Female	1405514	1405516

Number of contacts	2	3
Connection	Pneumatic	Pneumatic
		
Internal hose diameter	6 mm	1.6 mm; 3 mm; 4 mm
Male	1674998	1663475
Female		

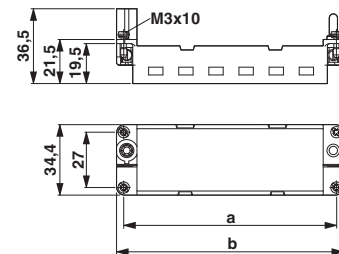
Further information on the HEAVYCON range can be found in our current PLUSCON catalog and at www.phoenixcontact.net/eshop.

Hinged retaining frames, housings, and accessories for modular contact inserts


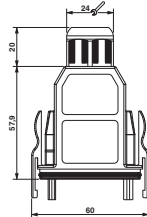


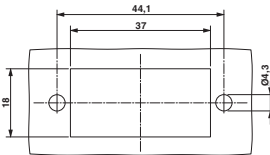
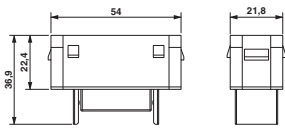

Hinged retaining frames

		For sleeve housing	For panel mounting bases, box mounting bases, and coupling housings
			
Module slots	Housing size	Labeling: A, B, C...	Labeling: a, b, c ...
2	B06	1679249	1679281
3	B10	1679252	1679294
4	B16	1679265	1679304
6	B24	1679278	1679317

Type	a [mm]	b [mm]
HC-M-MHR-...2-N	44.0	51.0
HC-M-MHR-...3-N	57.0	64.0
HC-M-MHR-...4-N	77.5	84.5
HC-M-MHR-...6-N	104.0	111.0



Housing

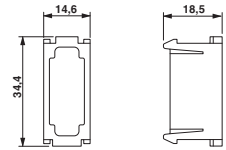
		With PE marking	Without PE marking
Sleeve housings		1408520	1408546
			
Panel mounting bases		1408533	1408559
			
Keying pin		1408562	

Accessories

Dummy module for filling free module slots in the retaining frame



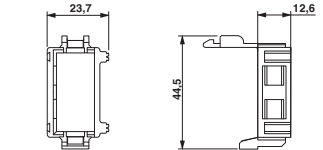
1676828



Module locking without strain relief



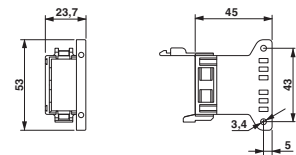
1676844



Module locking with strain relief



1676844



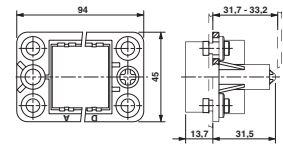
Docking frame

Floating

For 4 modules



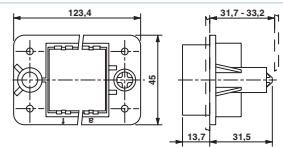
1587454



For 6 modules



1587470

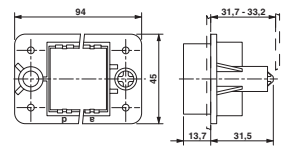


Fixed assembly

For 4 modules



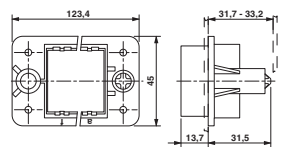
1587467



For 6 modules



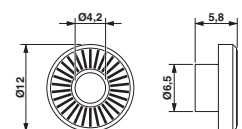
1587483



Special washer for mounting the floating docking frame with a standard M4 screw



1587496



Crimp contacts and tools

Series	For Ø [mm²]	AWG	Silver			Gold	
			Female	Male	Male lagging	Female	Male
	0.14-0.37	26-22	1663394	1663336		1674969	1679401
	0.5	20	1663404	1663349		1674480	1672453
	0.75	18	1663417	1663352		1672440	1674914
	0.75-1.0	18	1663420	1663365		1674943	1674888
	1.5	16	1663433	1663378		1674930	1674875
	2.5	14	1663446	1663381		1674985	1674927
	0.14-0.37	26-22	1585364	1585650		1585647	1585663
	0.5	20	1663640	1663572		1674859	1674804
	0.75	18	1663653	1663585			
	0.75-1.0	18	1663666	1663598	1663857	1674833	1674781
	1.5	16	1663679	1663608	1663860	1674820	1674778
	2.5	14	1663682	1663611	1663873	1674862	1674817
	4	12	1663705	1663637		1674846	1674794
	1.5	16	1663271	1663239			
	2.5	14	1663284	1663242			
	4	12	1663297	1663255			
	6	10	1663307	1663268			
	10	8	1586198	1586183			
	0.08-0.2	28-24				1688997	1688971
	0.2-0.5	24-20				1688984	1688968
	For 1 mm Ø						
	1.6 mm						
	3.0 mm						
	4.0 mm						
	6.0 mm						

Thermo contacts				Fiber optics		Pneumatics			Professional crimping tool with positioning tool	Basic crimping tool		Removal tool
Constantan (CuNi)		Iron (Fe)				Without valve		With valve		Crimping tool without positioning tool	Dies	
Female	Male	Female	Male	Female	Male	Female	Male	Female				
									1212113	1212072	1212075	1884869
1585757	1585744	1585773	1585760						1212113	1212072	1212075	1662722
									1212113	1212072	1212075	1662735
									1212114		1212076	
									1205448			1658794
				1885004	1884995				1584839			1884869
						1663514	1663488	1663543				
						1663527	1663491	1663556				
						1663530	1663501	1663569				
						1676763	1676750	1676776				

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Further information on the products presented here and on the world of solutions from Phoenix Contact can be found at www.phoenixcontact.net/catalog



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Automation Components and Systems
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