ELECTROUSTIC
DISTRIBUTION OF CONNECTIVITY SOLUTIONS

HEAVYCON complete heavy-duty connectors

Compatible insertion – flexible combinations

PHOENIX CONTACT
INSPIRING INNOVATIONS

PHOENIX CONTACT – in dialog with customers and partners worldwide

Phoenix Contact is a global market leader in the field of electrical engineering, electronics and automation. Founded in 1923, the family-owned company now employs around 14,500 people worldwide. A global sales network with over 50 sales subsidiaries and more than 30 additional sales partners guarantees customer proximity directly on site, anywhere in the world.

Our range of services consists of products associated with various electrotechnical applications. This includes numerous connection technologies for device manufacturers and machine building, components for modern control cabinets, and tailor-made solutions for many applications and industries, such as the automotive industry, wind energy, solar energy, the process industry or applications in the field of water management, power transmission/distribution, and transportation infrastructure.

Global player with personal customer contact

Company independence is an integral part of our corporate policy. Phoenix Contact therefore relies on in-house competence and expertise in a range of contexts: the design and development departments constantly come up with innovative product ideas, developing special solutions to meet customer requirements. Numerous patents emphasize the fact that many of Phoenix Contact's products have been developed in-house.

HEAVYCON complete – The right connector for every application

Find out more with the web code

You can find web codes in this brochure: a pound sign followed by a four-digit number combination.

Web code: #1234 (example)

This allows you to access information on our website quickly.

It couldn't be simpler:

1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
3. Get more information and product versions

#1234 **Search**

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

Contents

HEAVYCON complete – The right connector for every application

Heavy-duty connectors from the HEAVYCON complete series protect your interfaces and ensure secure power, data and signal transmission even under the harshest conditions. They resist dirt, water, vibrations and high mechanical strain and remain sealed up to IP69K degree of protection. You can always create the right plug-in connection for your requirements with housings from our three series types and matching contact inserts which can be combined.

Metal housings are EMC-ready

Thanks to conductive surfaces and seals, all HEAVYCON metal housings are "EMC-ready".
Combined with shielded cable glands, they offer you reliable protection in electromagnetic environments.

Wind turbine generators

In wind turbines, groups of cables and lines are connected using connectors. This is the only way that large systems can be installed quickly and cost-effectively. The interfaces must be resistant to corrosion, robust and as lightweight as possible. This is where the HEAVYCON EVO series comes into its own.

Automotive industry

Robust, hard-wearing connectors are used on assembly lines in the automotive industry. This lets you reduce the costs of transport, startup and maintenance. The HEAVYCON STANDARD metal connectors are perfectly suited here for ensuring fast assembly and a high degree of availability.

Control cabinet manufacturing, machine building and systems manufacturing

Reliable interfaces are an absolute must in state-of-the-art systems. As the system's complexity increases, there is less and less installation space available. Combine virtually every plug-in connection with the HEAVYCON complete product range – optimally tailored to your space requirements and assembly effort.

HEAVYCON complete provides the right connector with matching connection technology for every application: compatible insertion and flexible combinations.

HEAVYCON complete

HEAVYCON STANDARD –
Proven versatility

STANDARD housings are distinguished by a wide range of robust metal housings with various cable outlet directions and locks.

- High corrosion resistance
- Flexible single or double locking latches
- Mounting and plug-in compatible
- EMC-ready

HEAVYCON EVO –
Ingenious flexibility

The flexibly swiveling bayonet locking of the EVO series allows you to freely select the cable outlet direction.

- On-site selection of cable outlet direction
- Lower logistics costs
- Flexible single or double locking latches
- Mounting and plug-in compatible
- Metal housings: EMC-ready

HEAVYCON ADVANCE –
Robust without compromise

ADVANCE housings are particularly durable and robust, thanks to direct screw locking without panel mounting base.

- Ideal for increased environmental requirements thanks to high degree of protection
- Cost advantage thanks to direct mounting
- Mounting compatible
- Metal housings: EMC-ready

HEAVYCON complete – Free combination is your competitive advantage

The entire HEAVYCON complete product range consists of metal and plastic housings, contact inserts, cable glands and accessories.

All housing series fit standard panel cutouts. STANDARD and EVO housings require a panel mounting base for the panel feed-through. ADVANCE housings can be mounted directly onto the wall using the panel mounting flange.

The sleeve housings, panel mounting bases, box mounting bases and coupling housings can be freely combined with each other within the STANDARD and EVO series. They are mounting and plug-in compatible with aluminum housings from well-known manufacturers. This allows all components to be individually combined and flexibly modified, extended or replaced.

Our fixed position and modular contact inserts naturally fit into all housing series.

HEAVYCON complete

HEAVYCON STANDARD

Sleeve housing

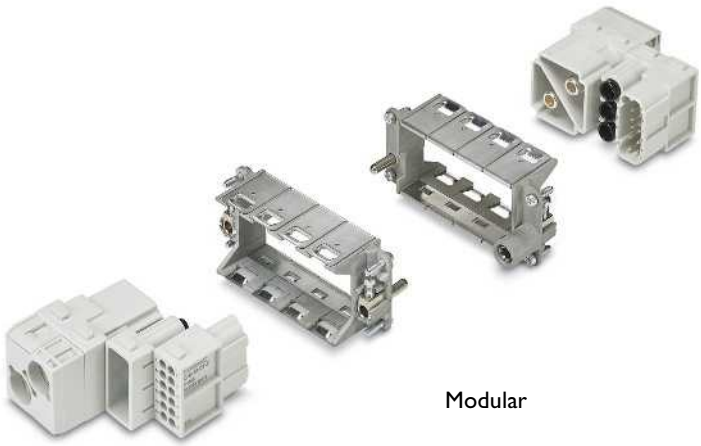
Contact inserts

Fixed position

Panel mounting base

HEAVYCON EVO

HEAVYCON ADVANCE



Modular

Panel mounting flange

HEAVYCON STANDARD – Proven versatility

HEAVYCON STANDARD housings with fast and reliable locking latch are suitable for many applications.

The robust metal housings resist dirt, water, vibrations and high mechanical strain.

HEAVYCON STANDARD and EVO housings are equipped with single or double locking latches. Various supporting base elements such as panel mounting bases, box mounting bases or coupling housings are available depending on the application.

EMC protection

The housing surfaces and seals are electrically conductive. Combined with shielded cable glands, they offer you reliable EMC protection.

Proven product range

The STANDARD housings are available in market-standard sizes and are fully compatible with the industry standard.

Convenient locking latch

The locking latch can be manually pressed quickly and easily.

Housings with single locking latch are ideal for alignment lengthwise. Double locking latches can be installed sideways and save space.

The locking latches comprise special, glass-reinforced polyamide.

Various outlet directions

Select from our wide housing range according to your requirements. We offer you sleeve housings with straight or lateral cable outlets for all common metric and Pg thread sizes.

For the harshest conditions

The robust metal housings are made from particularly corrosion-resistant die-cast aluminum, which is resistant to aggressive industrial conditions and high mechanical strain.

They are reliably sealed up to IP69K degree of protection.

HEAVYCON EVO – Ingenious flexibility

Switch to HEAVYCON EVO now and save on material and storage costs. You can use the angled EVO cable input to cut down the need for up to 70% of variants. The use of high-quality materials and full compatibility with the industry standard enable failsafe use in a wide range of applications.

Depending on the application, select a cost-effective plastic housing or an EMC-compatible metal housing.

HEAVYCON EVO housings reduce the number of variants, and your storage costs, by up to 70%. Using just one housing type and four cable glands, you can implement solutions for every possible application, whether with a straight or lateral outlet.

EMC protection

The housing surfaces and seals of the metal series are electrically conductive. Combined with shielded cable glands, they offer you reliable EMC protection.

Flexible connection in moments

The cable gland, which is separate from the housing, is securely locked in place in moments and without the need for special tools thanks to the bayonet locking.

Convenient locking latch

The locking latch can be manually pressed quickly and easily.

Housings with single locking latch are ideal for alignment lengthwise. Double locking latches can be installed sideways and save space.

The locking latches comprise special, glass-reinforced polyamide.

Two outlet directions with one housing

Thanks to the flexible bayonet locking, you can determine the cable outlet direction on site and subsequently change it, if required. The straight outlet enables tighter cable management along the wall. Fabricate a side outlet without bending the cable.

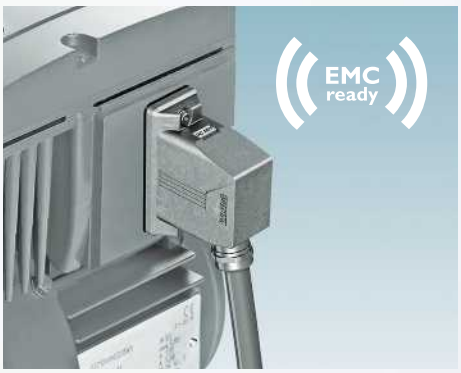
For harsh conditions

EVO connectors are tested for use in various industrial applications. The plastic housings, made from specially glass-reinforced polyamide, meet IP66 and NEMA 4X degree of protection, the metal housings meet IP66/IP67/IP69K and NEMA 4X/6P.

HEAVYCON ADVANCE – Robust without compromise

Heavy-duty HEAVYCON ADVANCE connectors with screw locking are ideal for particularly aggressive environments, such as the off-shore area, chemical industry or rail industry. Non-hard-wearing interfaces are reliably protected, even against EMC influences.

For the panel feed-through, the panel mounting base typically used has been replaced by two panel mounting flanges, thereby reducing assembly and material costs. In doing so, the sleeve housing forms a seal directly on the control cabinet panel.



EMC protection

The housing surfaces and seals of the metal series are electrically conductive. Combined with shielded cable glands, they offer you reliable EMC protection.

Save space and reduce costs
ADVANCE housings do not need a panel mounting base on the device side.

Robust screw locking

ADVANCE housings do not need a panel mounting base on the device side. Mount the sleeve housing with two panel mounting flanges and robust stainless steel locking screws directly onto the wall. This not only saves time and reduces costs, it also offers a high degree of tightness and makes it more difficult for unauthorized persons to access.

Cost-efficient designs

By eliminating the typical panel mounting base, you save on assembly and material costs.

Additional savings potential is offered by the low metal housing designs and molded cable glands of the plastic design.

For the harshest conditions

The resistant plastic housings meet IP68 degree of protection.

The two metal housing variants made from corrosion-resistant cast aluminum are reliably sealed up to IP68/IP69K degree of protection.

Thanks to the special powder coating and UV-resistant seals, the outdoor housings are ideal for use under extreme outdoor conditions.

HEAVYCON complete – Quality in every application

The quality of our products is our top priority. We do more than test the long-term quality on finished products, we are aware of our responsibility and perform testing during every step of the development process.

A process-oriented, integrated management system ensures that not only legislation and standards, but also customer requirements are taken into account in the manufacturing of our products.

IP and NEMA degrees of protection
DIN EN 60529, NEMA 250

Protection of contact inserts within the housing against ingress of dust or heavy jet water is examined here.

On HEAVYCON connectors, no visible dust or water ingress can be detected within the housing.

Vibration
IEC 60068-2-6

Harmonic, sinusoidal vibrations are applied to the test object to simulate rotating, pulsating or oscillating forces during the vibration test.

HEAVYCON connectors fulfill these requirements, making them ideal for applications on construction vehicles and machinery.

Temperature shock
IEC 60512-11-4, test 11d

To simulate significant temperature differences, the test objects are switched between the lower and upper limiting temperature of the product within a few seconds in a two chamber procedure.

HEAVYCON connectors are suitable for applications at an ambient temperature of -40 °C to +125 °C with constant temperature response.

HEAVYCON connectors are tested in accordance with numerous national and international standards and are suitable for many applications.

IK09 shock resistance
IEC 62262

Shock resistance is tested with a hammer in freefall with a mass of 1.7 kg from a height of 0.3 m.

HEAVYCON plastic connectors with IK09 are shock resistant to a similar degree as aluminum connectors or control boxes. They therefore meet the mechanical requirements of heavy-duty industrial connectors.

Roll-over
According to DIN IEC 62196-1

A special test is carried out on the plastic housing where a forklift truck weighing several tons is rolled over the housing.

HEAVYCON plastic housings withstand high stresses from heavy, moving loads without any adverse effect on function and are therefore ideal for use in industrial environments.

Dynamic load
HEAVYCON EVO special test

In this test, a force of 200 N is applied to the cable in 50 cycles at an angle of 90°.

This test verifies that the HEAVYCON EVO bayonet locking and the double locking latch between the housing and panel mounting frame do not open independently or malfunction even in the case of extremely static loads.

Contact inserts with a fixed number of positions – The right connection technology for every application

Our contact inserts offer you consistently compatible interfaces, which can be flexibly combined, for all conventional sizes.

The variants with a fixed number of positions are available – including mixing and matching – in a variety of performance classes and utilizing an assortment of connection technologies.

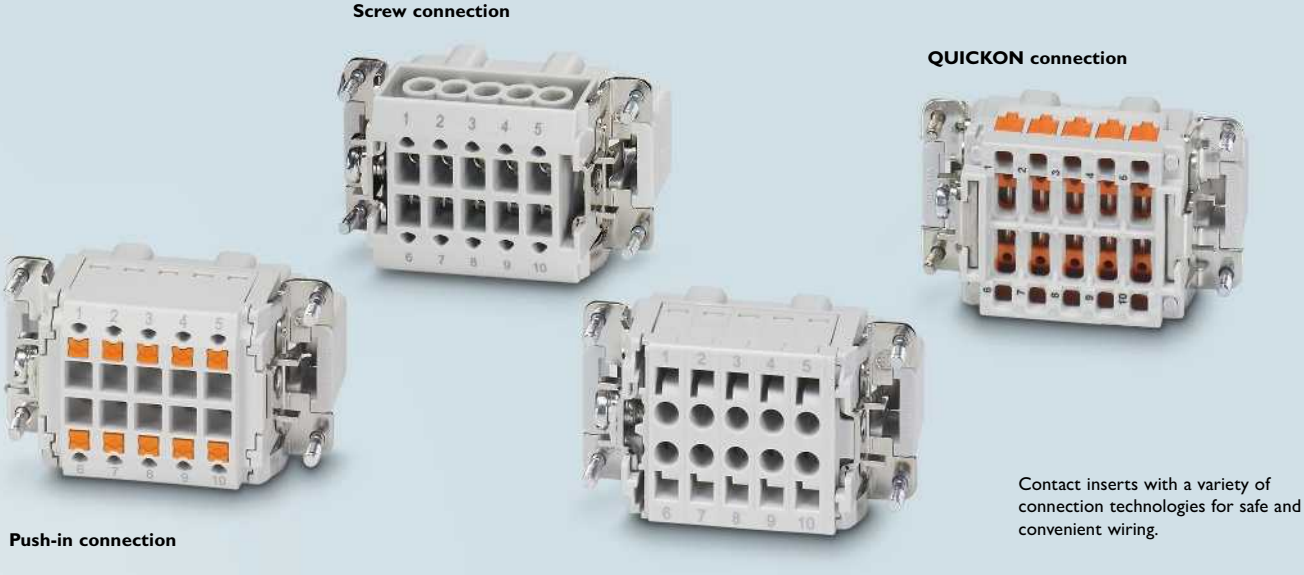
Fast connection technologies such as push-in or QUICKON displacement connection make it possible to connect cables in seconds.

Your advantages:

- Wide range of applications: for currents up to 80 A
- Save time, thanks to fast connection technologies such as push-in or QUICKON (IDC)
- Protection against mismatching, thanks to coding with plastic profiles
- Fully compatible with the industry standard

User-friendly push-in connection

Contact inserts with push-in connection provide easy handling, extremely short connection time, and an air-tight, vibration-proof and shock-proof connection. Stranded conductors with splicing protection or solid conductors can be inserted directly into the connection without any tools. The orange colored button can be used to remove the conductor without any special tools.



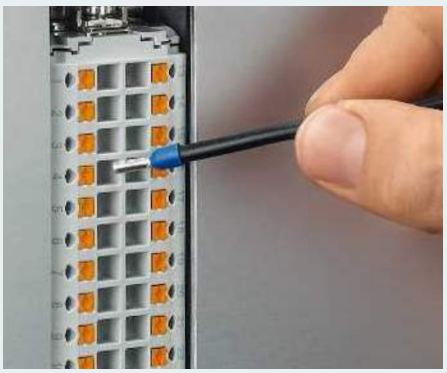
Contact inserts with a variety of connection technologies for safe and convenient wiring.

Push-in Technology

Designed by PHOENIX CONTACT

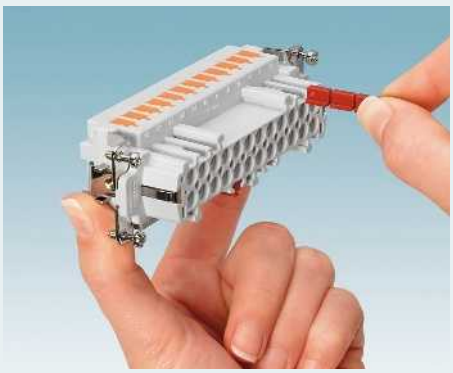
Fast QUICKON connection

Save up to 60% of wiring time: for contact inserts with QUICKON displacement connection, connect solid and stranded conductors in a flash without any prior processing. Simply route the unstripped cores through the connection and wire the slider with a screwdriver. The wire insulation is severed and large-surface, gas-tight contact is made.



Easy installation

Contact inserts with push-in connection technology allow you to make connections quickly and easily, even for components already installed in a control cabinet.



Fast, cost-effective coding

In many cases, a security measure is needed to avoid confusing identical neighboring connectors. Unlike coding methods such as coding bolts, pins or connectors, coding for HEAVYCON contact inserts is provided by quickly snapping in plastic coding profiles.

Modular contact inserts – Everything in one housing

Create the combination for the perfect modules to meet your application from our wide range: HEAVYCON modular encompasses more than 50 contact inserts for power, signal and data transmission as well as pneumatic applications.

The innovative snap-in frame with solid latch springs enables quick installation. It fits in all housings of the HEAVYCON STANDARD, EVO and ADVANCE series.

Modules and frames are compatible with the market standard.

Your advantages:

- Ultra-compact interface by combining various transmission media in one housing
- Reduce installation time by 40% with innovative snap-in frame with latch springs
- Safety through touch proofness and leading PE contact
- Fully compatible with the industry standard

Simple to snap in

Mount any module combination quickly and easily with the innovative snap-in frame. Snap in the contact inserts – job done! Springs on the side accommodate the modules and securely hold them in position.

The right connector for every application, thanks to the comprehensive range of contact inserts

Push-in Technology

Designed by PHOENIX CONTACT

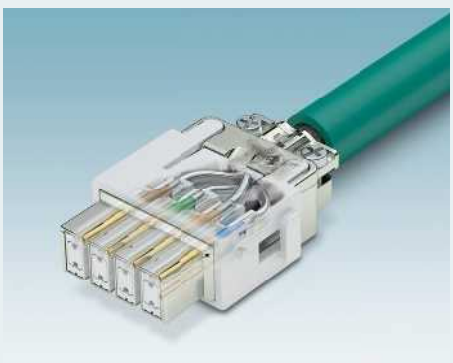
Simple to contact

Direct insertion without any tools: contact inserts with push-in connection offer a convenient conductor connection resistant to vibrations.

Modules with QUICKON fast connection technology, ready-to-use RJ45 patch cables and FO contacts for field assembly complete the product range.

Simple to insert

Thanks to snap-in frames, you can insert modules in previously installed panel mounting bases or replace contact inserts with ease later.



Reliable data transmission

We offer the right inserts for virtually every application: RJ Industrial modules with IDC connection, Gigabit modules with 360° shielding and paired shielded contacts for high-speed applications as well as modules for fiber optics based on LC or SC technology using contacts from Phoenix Contact.

System cross-reference list: HEAVYCON housings and contact inserts

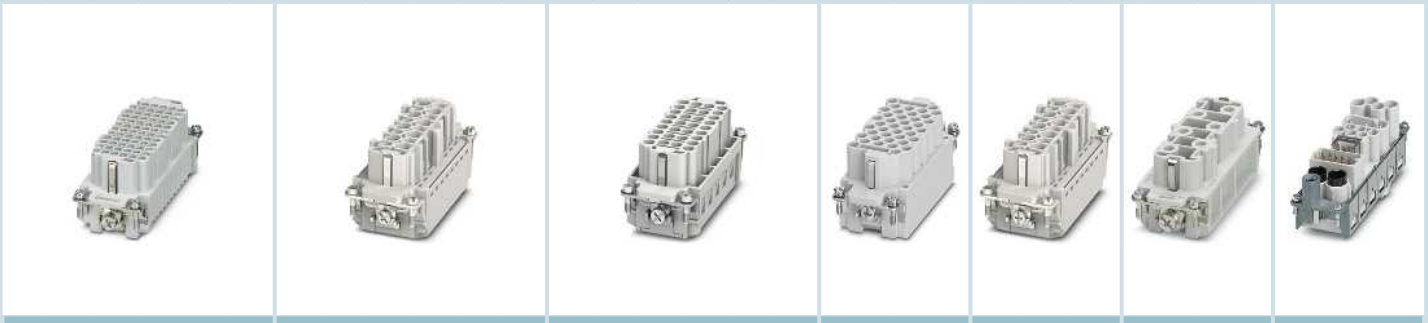
The system cross-reference list provides an overview of which contact inserts and housings work together.

Configure complete HEAVYCON connectors easily and quickly with our configurator:

Web code: #0003

HEAVYCON contact inserts

	Series	A		D		Q						A			D			D			
	Number of positions	3	4	7	8	2	3	4	5	7	12	10	16	2x16	15	25	2x25	40	64	2x40	2x64
	Size	D7		D7		D7						D15	D25	D50	D15	D25	D50	B16	B24	B32	B48
	Rated voltage	230/400		250	50	400	400	830	230/400	400		250			250			250			
	Rated current	24		10		40	40	40	24	10		20			10			10			
Connection methods	UT = Screw	UT											UT								
	CT = Crimp			CT		CT						CT			CT			CT			
	PT = Push-in																				
	Z = Spring-cage																				
	Q = IDC / QUICKON	Q																			
	L = Fiber optics									L					L			L			
	A = Axial screw					A															
	P = Pneumatics																				
	Series	A		D		Q						A			D			D			
	Number of positions	3	4	7	8	2	3	4	5	7	12	10	16	2x16	15	25	2x25	40	64	2x40	2x64
	Page	22										24						26			
HEAVYCON housing	Size																				
	D7	23	•	•	•	•	•	•	•	•	•	•										
	D15	25											•			•						
	D25													•			•					
	D50														•			•				
	B6	34...																				
	B10																					
	B16																	•				
	B24																		•			
	B32																			•		
	B48																				•	



DD						B						BB						BBB		HV			HS		M
24	42	72	108	2x72	2x108	6	10	16	24	2x16	2x24	10	18	32	46	2x32	2x46	40	64	3+2	6+2	10+2	6	12	Variable
B6	B10	B16	B24	B32	B48	B6	B10	B16	B24	B32	B48	B6	B10	B16	B24	B32	B48	B16	B24	B10	B16	B24	B16	B32	B6 – B48
250						500						500						500		830			400/690		50 – 5000
10						16						16						16		16			41		5 – 200
						UT																	UT		
CT						CT						CT						CT		CT					CT
						PT														PT					
																									Z
						Q																			
L																									L
																									A
																									P
DD						B						BB						BBB		HV			HS		M
24	42	72	108	2x72	2x108	6	10	16	24	2x16	2x24	10	18	32	46	2x32	2x46	40	64	3+2	6+2	10+2	6	12	Variable
26						26						26						26		27			27		28
•						•						•													•
	•						•						•							•					•
		•						•						•				•			•		•		•
			•						•						•				•			•			•
				•						•						•								•	•
					•						•						•								•

Contact inserts, D7 series

Web code: #0586

	Series	Connection		Connection cross section	Rated current	Rated voltage	Housing size	D7	D7
							Number of positions	3	4
	A	Screw	UT	0.14 – 2.5 mm²	16 A	250 V	Socket	1585223	1585249
							Pin	1585210	1585236
								7	8
	D	Crimp CK 1,6	CT	0.14 – 2.5 mm²	10 A	250 V	Socket	1584347	1584363 *
							Pin	1584334	1584350 *

* 250 V only in conjunction with plastic housings, 42 V in conjunction with metal housings

								2	
	Q	Axial screw	AT	4.0 – 10.0 mm²	40 A	400 V	Socket	1586264	
							Pin	1586277	
								2	3
		Crimp CK 4,0	CT	1.5 – 10 mm²	40 A	400 V	Socket	1419895	1419897
							Pin	1419893	1419896
								4	
		Crimp CK 4,0	CT	0.5 – 10 mm²	40 A	830 V	Socket	1419899 **	
							Pin	1419898 **	
								5	
		Crimp CK 2,5	CT	0.14 – 2.5 mm²	10 A	230/400 V	Socket	1406537	
							Pin	1406538	
								7	12
		Crimp CK 1,6	CT	0.14 – 2.5 mm²	10 A	400 V	Socket	1418623	1418625
							Pin	1418624	1418626

** Only suited for plastic housings.

Housings, D7 series

Web code: #0586

	Design/thread	Plastic		Metal		
		M20	M25	M20	M25	PG11
Sleeve housing						
		1419255	1419256	1419229	1419231	1419232
Sleeve housing						
		1419257	1419258	1419235	1419236	1419237
Straight panel mounting base						
		1419265		1419249		
Straight panel mounting base, with cover						
	For pin inserts	1419278		1419250		
	For socket inserts	1419277		1419251		
Angled panel mounting base						
		1419266		1419252		
Box mounting base with open bottom						
		1419267		1419253		1419233
Box mounting base with closed bottom						
		1419268		1419234		1419241
Coupling housing						
		1419259	1419260	1419238	1419239	1419240
	With cover					
	For pin inserts	1419263	1419264	1419246	1419247	1419248
	For socket inserts	1419261	1419262	1419243	1419244	1419245
Feed-through header						
		1419269		1419242		
Cover for sleeve housing, with latch						
	For pin inserts	1419275				
	For socket inserts	1419274				
Cover for panel mounting base and box mounting base						
	For pin inserts	1419273				
	For socket inserts	1419272				
Cover for box mounting base and coupling housing						
	For pin inserts	1419271				
	For socket inserts	1419270				

Contact inserts, D15 and D25 series

Web code: #0516

	Series	Connection		Connection cross section	Rated current	Rated voltage	Housing size	D15	D25	D50
							Number of positions	10	16	2x16
	A	Screw	UT	0.14 – 2.5 mm²	16 A	250 V	Socket	1585304	1585320	1585320
										1585346
							Pin	1585294	1585317	1585317
										1585333
		Crimp CK 1,6	CT	0.14 – 4 mm²	16 A	250 V	Socket	1676983	1677018	1677018
										1677050
							Pin	1676996	1677034	1677034
										1677076
								15	25	2x25
	D	Crimp CK 1,6	CT	0.14 – 2.5 mm²	10 A	250 V	Socket	1584389	1584402	1584402
										1584402
							Pin	1584376	1584392	1584392
										1584392

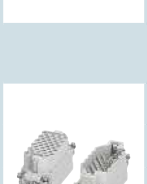
Housings, D15 and D25 series

Web code: #0518

	Height/ thread	Metric thread, Plastic D15	Metric thread, Plastic D25
Sleeve housing for single locking latch			
	High	1411340	1411347
Panel mounting base with single locking latch, without cover			
		1411336	1411344
Panel mounting base with single locking latch, with cover			
		1411337	1411345
Box mounting base with single locking latch, without cover			
	1x/2x M20	1421463	1421466
	1x/2x M25	1411341	1411348
Box mounting base with single locking latch, with cover			
	1x/2x M20	1421465	1421467
	1x/2x M25	1411343	1411349
Coupling housing with single locking latch			
	High	1411338	1411346

	Cable Ø	Thread	Plastic D
Cable gland with bayonet locking			
	7 mm ... 13 mm		1411350
	9 mm ... 17 mm		1411351
Thread adapter			
		M25	1411352
		PG16	1411353
		NPT 3/4	1411354
Standard cable glands			
	6 mm ... 12 mm	M20	1411133
	11 mm ... 17 mm	M25	1411134

Contact inserts with a fixed number of positions

	Series	Connection		Connection cross section	Rated current	Rated voltage	Housing size	B06	B10	B16	B24	B32	B48
							Number of positions	6	10	16	24	2x16	2x24
	B	Screw	UT	0.5 – 2.5 mm²	16 A	500 V	Socket	1648128	1648186	1648241	1648306	1648241	1648306
								–	–	–	–	1584884	1584949
							Pin	1648115	1648173	1648238	1648296	1648238	1648296
								–	–	–	–	1584871	1584936
		Crimp CK 2,5	CT	0.5 – 4.0 mm²	16 A	500 V	Socket	1648160	1648225	1648283	1648348	1648283	1648348
								–	–	–	–	1584923	1584981
							Pin	1648157	1648212	1648270	1648335	1648270	1648335
								–	–	–	–	1584910	1584978
		Push-in	PT	0.14 – 2.5 mm²	16 A	500 V	Buchse	1407727	1407729	1407731	1407735	1407731	1407735
								–	–	–	–	1407733	1407737
							Pin	1407728	1407730	1407732	1407736	1407732	1407736
								–	–	–	–	1407734	1407738
		IDC	Q	0.34 – 2.5 mm²	16 A	400 V	Socket	1605556	1605569	1605572	1605585	1605572	1605585
								–	–	–	–	1605598	1605608
							Pin	1605611	1605624	1605637	1605640	1605637	1605640
								–	–	–	–	1605653	1605666
								10	18	32	46	2x32	2x46
	BB	Crimp CK 2,5	CT	0.5 – 4.0 mm²	16 A	500 V	Socket	1584703	1584729	1584745	1584758	1584745	1584758
								–	–	–	–	1406543	1406545
							Pin	1584774	1584716	1584732	1584761	1584732	1584761
								–	–	–	–	1406544	1406546
										40	64	2x40	2x64
	BBB	Crimp CK 2,5	CT	0.5 – 4.0 mm²	16 A	500 V	Socket	–	–	1409930	1409914	1409930	1409914
								–	–	–	–	1409930	1409914
							Pin	–	–	1409921	1409901	1409921	1409901
								–	–	–	–	1409921	1409901
										40	64	2x40	2x64
	D	Crimp CK 1,6	CT	0.14 – 2.5 mm²	10 A	250 V	Socket	–	–	1584428	1584444	1584428	1584444
								–	–	–	–	1584428	1584444
							Pin	–	–	1584415	1584431	1584415	1584431
								–	–	–	–	1584415	1584431
								24	42	72	108	2x72	2x108
	DD	Crimp CK 1,6	CT	0.14 – 2.5 mm²	10 A	250 V	Socket	1584046	1584062	1584091	1584130	1584091	1584130
								–	–	–	–	1584101	1584143
							Pin	1584033	1584059	1584075	1584114	1584075	1584114
								–	–	–	–	1584088	1584127

	Series	Connection		Connection cross section	Rated current	Rated voltage	Housing size	B06	B10	B16	B24	B32	B48
							Number of positions	0	3	6	10		
	HV	Push-in	PT	0.14 – 2.5 mm²	16 A	830 V	Socket	–	1407743	1407744	1407745	–	–
								–	–	–	–	–	–
							Pin	–	1407739	1407740	1407741	–	–
								–	–	–	–	–	–
		Crimp CK 2,5	CT	0.5 – 4.0 mm²	16 A	830 V	Socket	–	1405261	1405263	1405265	–	–
								–	–	–	–	–	–
							Pin	–	1405260	1405262	1405264	–	–
								–	–	–	–	–	–
										6		12	
	HS	Screw	UT	0.5 – 6.0 mm²	41 A	400/690 V	Socket	–	–	1406530	–	1406530	–
								–	–	–	–	1406533	–
							Pin	–	–	1406531	–	1406531	–
								–	–	–	–	1406534	–
										6		12	
	K	Screw	UT	6 – 16 mm²	80 A	1000 V	Socket	–	–	1580537	–	–	–
							Pin	–	–	1580538	–	–	–
								6	10	16	24	2x16	2x24
	B-A	Screw	UT	0.5 – 2.5 mm²	16 A	500 V	Socket, PE left	1648018	1648030	1648042	1648054	–	–
							Socket, PE right	1648066	1648078	1648090	1648102	–	–
							Pin, PE left	1648024	1648036	1648048	1648060	–	–
							Pin, PE right	1648072	1648084	1648096	1648108	–	–
		Push-in	DT	0.5 – 2.5 mm²	16 A	500 V	Socket, PE left	1648351	1648393	1648432	1648474	–	–
							Socket, PE right	1648377	1648416	1648458	1648490	–	–
							Pin, PE left	1648364	1648403	1648445	1648487	–	–
							Pin, PE right	1648380	1648429	1648461	1648500	–	–
										40	64		
	D-A	Screw	UT	0.5 – 2.5 mm²	10 A	250 V	Socket, PE left	–	–	1584253	1584295	–	–
							Socket, PE right	–	–	1584279	1584321	–	–
							Pin, PE left	–	–	1584240	1584282	–	–
							Pin, PE right	–	–	1584266	1584318	–	–
		Push-in	DT	0.5 – 2.5 mm²	10 A	250 V	Socket, PE left	–	–	1580147	1580189	–	–
							Socket, PE right	–	–	1580163	1580202	–	–
							Pin, PE left	–	–	1580150	1580192	–	–
							Pin, PE right	–	–	1580176	1580215	–	–

Modular contact inserts, B series, for signals and power

Web code: #0516

Number of positions	1	1	1	1	2	2	2	2
Connection	Axial screw		Axial screw		Axial screw		Axial screw	
								
Current	200 A		200 A		100 A		70 A	
Voltage	1000 V		PE		1000 V		1000V	
Cable diameter	40 – 70 mm²	25 – 40 mm²	40 – 70 mm²	25 – 40 mm²	16 – 35 mm²		14 – 22 mm²	6 – 16 mm²
Module slots	2	2	2	2	2		1	1
Socket	1417383	1417379	1417384	1417380	1417390		1417298	1417296
Pin	1417385	1417381	1417386	1417382	1417392		1417299	1417297

Number of positions	2	2	3	4	3/4
Connection	Axial screw	Crimp CK 4.0	Crimp CK 4.0	Crimp CK 4.0	Crimp CK 4.0
					
Current	40 A		40 A	40 A	40 A / 10 A
Voltage	1000 V		690 V	830V	830 V
Cable diameter	2.5 – 8 mm²	1.5 – 10 mm²	1.5 – 10 mm²	2.5 – 6 mm²	1.5 – 6 mm² / 0.14 – 2.5 mm²
Module slots	1	1	1	1	1
Socket	1417387	1414361	1414359	1414363	1414365
Pin	1417389	1414360	1414358	1414362	1414364

Number of positions	2	6	6	20
Connection	Crimp CK 2.5	Crimp CK 2.5	Crimp CK 2.5	Crimp CK 2.5
				
Current	16 A	16 A	16 A	16 A
Voltage	2900/5000 V	830 V	500 V	500 V
Cable diameter	0.5 – 4 mm²	0.5 – 4 mm²	0.5 – 4 mm²	0.5 – 4 mm²
Module slots	2	1	1	2
Socket	1417407	1414369	1414367	1414373
Pin	1417408	1414368	1414366	1414372

Number of positions	5	8	12	17
Connection	Push-in	Crimp CK 2.5	Crimp CK 1.6	Crimp CK 1.6
				
Current	16 A	16 A	10 A	10 A
Voltage	400 V	500 V	250 V	160 V
Cable diameter	0.14 – 2.5 mm²	0.5 – 4 mm²	0.14 – 2.5 mm²	0.14 – 2.5 mm²
Module slots	1	1	1	1
Socket	1417373	1414371	1414355	1414357
Pin	1417372	1414370	1414354	1414356

Modular contact inserts, B series, for data and compressed air

Web code: #0516

Number of positions	25	9	2	8
Connection	Crimp VS 1.0	DSUB, Crimp VS 1.0	PROFIBUS RS-485	GBit Ethernet Cat. 6, crimp
				
Current	5 A	5 A	5 A	5 A
Voltage	50 V	50 V	50 V	50 V
Cable diameter	0.08 – 0.5 mm²	0.08 – 0.5 mm²	0.08 – 0.5 mm²	0.08 – 0.5 mm²
Module slots	1	1	1	1
Socket	1414375	1417308	1417307	1417303
Pin	1414374	1417309	–	1417302

Number of positions				4	
Connection	RJ45, crimp	RJ45 adapter		RJ45 gender changer	EMC, Crimp CK 1.6	
						
Current						10 A
Voltage		For RJ45 patch cables from Phoenix Contact	For RJ Industrial, IDC			50 V
Cable diameter						0.14 – 2.5 mm²
Module slots	1	1	1	1	2	
Socket	–	–	–	1419886	1417376	1636091
Pin	1419887	1419885	1419888	–	1417374	1636088

Number of positions	4	4	4	1	1
Connection	SC FO*	LC FO*	Coax	Coax contacts	
					
Current				1.5 A	
Voltage				50 V	
Resistance				50 ohms	75 ohms
Module slots	1	1	1	1	1
Socket	1419890	1419892	1417370	1676815	1686245
Pin	1419889	1419891	1417371	1676802	1686258

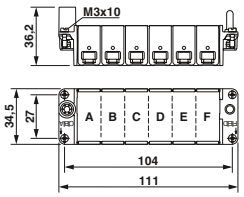
Number of positions	2		0
Connection	Pneumatics **		Dummy module
			
Hose inner diameter	6 mm	1.6 / 3 / 4 mm	
Module slots	1	1	1
Socket	1417434	1417433	1414353
Pin			

* You can find suitable SC and LC contacts on Phoenix Contact's website.
** You can find suitable pneumatic contacts on page 33.

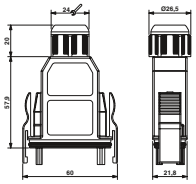
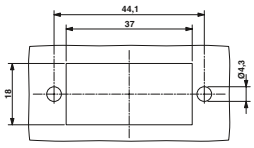
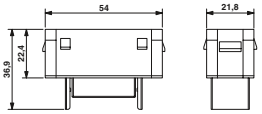
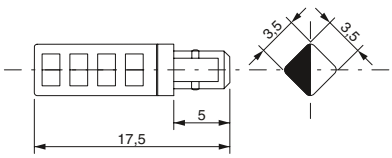
Snap-in frames and accessories for modular contact inserts, B series

Snap-in frame with side latch springs

					Sleeve housings	Panel/box mounting bases and coupling housings
						
Module slots	**Housing size**	**Dimensions**		**Type**		
		a (mm)	b (mm)		Marking: A, B, C, etc.	Marking: a, b, c,. etc.
2	B06	44.0	51.0	**HC-M-B06-MF-...**	**1417403**	**1417398**
3	B10	57.0	64.0	**HC-M-B10-MF-...**	**1417404**	**1417399**
4	B16	77.5	84.5	**HC-M-B16-MF-...**	**1417405**	**1417400**
6	B24	104.0	111.0	**HC-M-B24-MF-...**	**1417406**	**1417402**



Plastic housing for a contact insert module

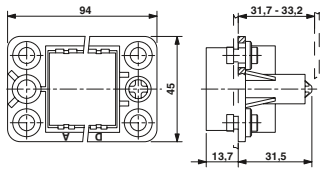
		With PE marking	Without PE marking
Sleeve housing		**1408520**	**1408546**
			
Panel mounting base		**1408533**	**1408559**
			
Coding pin		**1408562**	
			

Docking frame

Floating

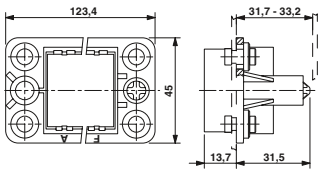
For 4 module slots

1587454



For 6 module slots

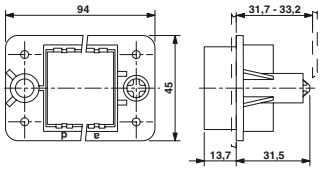
1587470



Fixed assembly

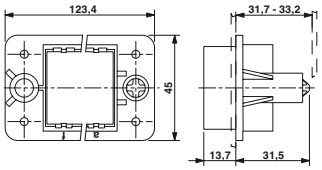
For 4 module slots

1587467



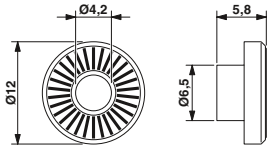
For 6 module slots

1587483



Special washer for installation of docking frame with floating bearing with a standard M4 screw

1587496



Crimp contacts and tools

	Series	For cross section [mm²]	AWG	Silver			Gold	
				Socket	Pin	Pin lagging	Socket	Pin
	**CK 1,6-ED**	0.14 – 0.37	26 – 22	1663394	1663336		1674969	1674901
		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
	**CK 2,5-ED**	0.14 – 0.37	26 – 22	1585634	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
	**CK 4,0-ED**	1.5	16	1663271	1663239			
		2.5	14	1663284	1663242			
		4	12	1663297	1663255			
		6	10	1663307	1663268			
		10	8	1586198	1586183			
	**VS-CD 1,0**	0.08 – 0.2	28 – 24				1688997	1688971
		0.2 – 0.5	24 – 20				1688984	1688968
	**FO POF**	For Ø 1 mm						
	**Pneumatics**	For Ø 1.6 mm						
		For Ø 3.0 mm						
		For Ø 4.0 mm						
		For Ø 6.0 mm						

Thermal contacts				Fiber optics		Pneumatics			Professional crimping tool with positioning tool	Basic crimping tool		Removal tool
Constantan (CuNi)		Iron (Fe)				Without valve		With valve				
Socket	Pin	Socket	Pin	Socket	Pin	Socket	Pin	Socket		Crimping tool without positioning tool	Dies	
									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				

STANDARD housings, B series, with double locking latch

Web code: #0517

	Height	Thread	Metric thread B10	Metric thread B16	Metric thread B24	Thread	Pg thread B10	Pg thread B16	Pg thread B24
Sleeve housing for double locking latch									
	Low	1x M20	1412620			Pg13.5			
		1x M25	1412621	1412721	1412778	Pg16	1412622	1412723	1412780
		1x M32		1412722	1412779	Pg21	1412623	1412724	1412781
	High	1x M25	1412596			Pg21	1412598	1412669	1412755
		1x M32	1412597	1412653	1412754	Pg29	1412599	1412678	1412756
		1x M40		1412654	1412099				
	Low	1x M20	1412616			Pg13.5			
		1x M25	1412617	1412717	1412773	Pg16	1412618	1412719	1412775
		1x M32		1412718	1412774	Pg21	1412619	1412720	1412776
	High	1x M25	1412592			Pg21	1412594	1412651	1412752
		1x M32	1412593	1412649	1412750	Pg29	1412595	1412652	1412753
		1x M40		1412650	1412751				
Panel mounting base with double locking latch									
		Without cover	1411322	1411327	1411331	Without cover	1411322	1411327	1411331
Box mounting base with double locking latch									
	Low	1x/2x M20	1412835			1x/2x Pg16	1412837		
		1x/2x M25	1412836	1412855	1412873	1x/2x Pg21		1412857	1412875
		1x/2x M32		1412856	1412874	1x/2x Pg29			
Coupling housing									
	High	1x M20	1412578			1x Pg16	1412581		
		1x M25	1412579	1412641		1x Pg21	1412582	1412643	1412744
		1x M32	1412580	1412642	1412742	1x Pg29	1412583	1412644	1412745
		1x M40			1412743				
Sleeve housing with double locking latch									
	Low	1x M20	1412637			1x Pg16	1412639	1412740	1412801
		1x M25	1412638	1412738	1412799	1x Pg21	1412640	1412741	1412802
		1x M32		1412739	1412800	1x Pg29			1412803
	High	1x M25	1412612			1x Pg21	1412614	1412715	1412771
		1x M32	1412613	1412708	1412769	1x Pg29	1412615	1412716	1412772
		1x M40		1412709	1412770				
	Low	1x M20	1412633			1x Pg16	1412635	1412735	1412796
		1x M25	1412634	1412733	1412793	1x Pg21	1412636	1412737	1412797
		1x M32		1412734	1412795				
	High	1x M25	1412608			1x Pg21	1412610	1412705	1412767
		1x M32	1412609	1412703	1412764	1x Pg29	1412611	1412706	1412768
		1x M40		1412704	1412766				
Panel mounting base for double locking latch									
		With cover	1411323	1411328	1411332		1411323	1411328	1411332
Box mounting base for double locking latch									
		1/2x M20	1412830			1/2x Pg16	1412832	1412852	
		1/2x M25	1412831	1412849	1412869	1/2x Pg21		1412853	1412871
		1/2x M32		1412850	1412870				

STANDARD housings, B series, with single locking latch

Web code: #0517

	Height	Thread	Metric thread B6	Metric thread B10	Metric thread B16	Metric thread B24	Thread	Pg thread B6	Pg thread B10	Pg thread B16	Pg thread B24
Sleeve housing for single locking latch											
	Low	1x M20	1412574	1412629			Pg13.5	1412576			
		1x M25	1412575	1412630	1412729	1412788	Pg16	1412577	1412631	1412731	1412790
		1x M32			1412730	1412789	Pg21		1412632	1412732	1412791
	High	1x M25	1412566	1412604			Pg21	1412568	1412606	1412701	1412762
		1x M32	1412567	1412605	1412689	1412761	Pg29	1412569	1412607	1412702	1412763
		1x M40			1412700	1412098					
	Low	1x M20	1412570	1412624			Pg13.5	1412572			
		1x M25	1412571	1412625	1412725	1412783	Pg16	1412573	1412627	1412727	1412785
		1x M32			1412726	1412784	Pg21		1412628	1412728	1412786
	High	1x M25	1412562	1412600			Pg21	1412564	1412602	1412683	1412759
		1x M32	1412563	1412601	1412679	1412757	Pg29	1412565	1412603	1412684	1412760
		1x M40			1412682	1412758					
Panel mounting base											
		No cover	1411318	1411320	1411324	1411329	No cover	1411318	1411320	1411324	1411329
		With cover	1411319	1411321	1411325	1411330	With cover	1411319	1411321	1411325	1411330
Box mounting base											
		1x/2x M20	1412821	1412839			1x/2x Pg16	1412823	1412842		
		1x/2x M25	1412822	1412840	1412861	1412877	1x/2x Pg21			1412863	1412879
		1x/2x M32			1412862	1412878	1x/2x Pg29				
Box mounting base with cover											
		1x/2x M20	1412825	1412844							
		1x/2x M25	1412826	1412845	1412865	1412881					
		1x/2x M32			1412866	1412882					
Coupling housing											
	High	1x M20	1412555	1412584			1x Pg13.5	1412558			
		1x M25	1412556	1412585	1412645		1x Pg16		1412587		
		1x M32	1412557	1412586	1412646	1412746	1x Pg21	1412559	1412588	1412647	1412748
		1x M40				1412747	1x Pg29	1412560	1412589	1412648	1412749

EVO housings, B series, plastic, with double locking latch

Web code: #0518

	Height/ thread	Metric thread		
		Plastic		
		B10	B16	B24
Sleeve housing for double locking latch				
	Low	1407628	1420932	1420935
	High	1407629	1407643	1407657
Sleeve housing with two cable outlets				
	High	1411495	1411496	1411497
Panel mounting base with double locking latch				
	Without cover	1407634	1407648	1407661
Box mounting base with double locking latch				
	1x/2x M20	1421356		
	1x/2x M25	1421304	1421455	1421461
	1x/2x M32	1407638	1421365	1421370
	1x/2x M40		1407652	1407665
Coupling housing with double locking latch				
	High	1407641	1407655	1407668
Sleeve housing with double locking latch				
	Low	1407630	1420933	1420936
	High	1407631	1407644	1407658
Panel mounting base for double locking latch with cover				
		1407635	1407649	1407662
Box mounting base for double locking latch with cover				
	1x/2x M20	1421362		
	1x/2x M25	1421320	1421458	1421462
	1x/2x M32	1407639	1421366	1421380
	1x/2x M40		1407653	1407666

EVO housings, B series, plastic, single locking latch

Web code: #0518

	Height/ thread	Metric thread			
		Plastic			
		B6	B10	B16	B24
Sleeve housing for single locking latch					
	Low	1407619	1407626	1420931	1420934
	High	1407620	1407627	1407642	1407656
Sleeve housing with two cable outlets					
	High	1420930			
Panel mounting base with single locking latch					
	Without cover	1407621	1407632	1407646	1407659
	With cover	1407622	1407633	1407647	1407660
Box mounting base with single locking latch					
	1x/2x M20	1421322	1421354		
	1x/2x M25	1421229	1421277	1421381	1421459
	1x/2x M32	1407623	1407363	1421363	1421367
	1x/2x M40			1407650	1407663
Box mounting base with single locking latch with cover					
	1x/2x M20	1421329	1421355		
	1x/2x M25	1421244	1421301	1421382	1421460
	1x/2x M32	1407624	1407637	1421364	1421369
	1x/2x M40			1407651	1407664
Coupling housing with single locking latch					
	High	1407625	1407640	1407654	1407667

	Ø cable diameter/ thread	Plastic
		B
Cable gland with bayonet locking		
	7 mm ... 13 mm	1407669
	9 mm ... 17 mm	1407670
	11 mm ... 21 mm	1407671
	19 mm ... 28 mm	1407672
Thread adapter		
	M20	1414243
	M25	1414244
	M32	1414245
	M40	1414246
	Pg13.5	1414247
	Pg16	1414248
	Pg21	1414249
	Pg29	1414250
	NPT 1/2	1414251
	NPT 3/4	1414252
	NPT 1	1414253
IP68 cable glands		
	M20 6 mm ... 12 mm	1411133
	M25 11 mm ... 17 mm	1411134
	M32 15 mm ... 21 mm	1411136
	M40 19 mm ... 27 mm	1411137
	Pg13.5 6 mm ... 12 mm	1411143
	Pg16 10 mm ... 14 mm	1411144
	Pg21 13 mm ... 18 mm	1411145
	Pg29 18 mm ... 25 mm	1411146

EVO housings, B series, metal, double locking latch

Web code: #0518

	Height/ thread	Metric thread		
		Metal		
		B10	B16	B24
Sleeve housing for double locking latch				
	Low	1411455		
	High	1411451	1411460	1411472
Panel mounting base with double locking latch				
	Without cover	1411322	1411327	1411331
Box mounting base with double locking latch, without cover				
	1x/2x M20	1412835		
	1x/2x M25	1412836	1412855	1412873
	1x/2x M32		1412856	1412874
	1x/2x M40			
Coupling housing with double locking latch				
	High	1411458	1411463	1411475
Sleeve housing with double locking latch				
	Low	1411457		
	High	1411454	1411462	1411474
Panel mounting base for double locking latch, with cover				
		1411323	1411328	1411332
Box mounting base for double locking latch, with cover				
	1x/2x M20	1412830		
	1x/2x M25	1412831	1412849	1412869
	1x/2x M32		1412850	1412870
	1x/2x M40			

EVO housings, B series, metal, single locking latch

Web code: #0518

	Height/ thread	Metric thread			
		Metal			
		B06	B10	B16	B24
Sleeve housing for single locking latch					
	Low	1411448	1411456		
	High	1411447	1411453	1411461	1411473
Panel mounting base with single locking latch					
	Without cover	1411318	1411320	1411324	1411329
	With cover	1411319	1411321	1411325	1411330
Box mounting base with single locking latch					
	1x/2x M20	1412821	1412839		
	1x/2x M25	1412822	1412840	1412861	1412877
	1x/2x M32			1412862	1412878
	1x/2x M40				
Box mounting base with single locking latch, with cover					
	1x/2x M20	1412825	1412844		
	1x/2x M25	1412826	1412845	1412865	1412881
	1x/2x M32			1412866	1412882
	1x/2x M40				
Coupling housing with single locking latch					
	High	1411450	1411459	1411464	1411476

	Ø cable diameter/ thread	Metal	EMC
		B	B
Cable gland with bayonet locking			
	9 mm ... 12 mm	1411442	1411439
	11 mm ... 16 mm	1411443	1411446
	14 mm ... 21 mm	1411444	1411440
	19 mm ... 27 mm	1411445	1411441
Thread adapter			
	M20	1414256	
	M25	1414257	
	M32	1414258	
	M40	1414259	
	Pg13.5	1414260	
	Pg16	1414261	
	Pg21	1414262	
	Pg29	1414263	
	NPT 1/2	1414264	
	NPT 3/4	1414265	
	NPT 1	1414266	
IP68 cable glands			
	M20 6 mm ... 12 mm	1411163	1411189
	M25 11 mm ... 17 mm	1411165	1411190
	M32 14 mm ... 21 mm	1411166	1411191
	M40 19 mm ... 28 mm	1411167	1411192
	Pg13.5 6 mm ... 12 mm	1411173	1411198
	Pg16 10 mm ... 14 mm	1411174	1411199
	Pg21 13 mm ... 18 mm	1411175	1411200
	Pg29 18 mm ... 25 mm	1411176	1411201

ADVANCE housings, B series, with screw locking

Web code: #0519

	Height	Thread	B06	B10	B16	B24
Plastic housing (PL)						
	High	1x M20	1404222			
		1x M25	1404225	1404227		
		1x M32		1404229	1404231	1404235
		1x M40			1404233	1404238
	High	1x M20	1404224			
		1x M25	1404226	1404228		
		1x M32		1404230	1404232	1404237
		1x M40			1404234	1404239
Metal housing (AL)						
	Low	1x M20	1413362	1413388		
		1x M25	1413364	1413390	1414975	1414982
	High	1x M20				
		1x M25	1413374	1413400	1414977	1414980
		1x M32	1413376	1413402	1413416	1413430
		1x M40			1413418	1413432
	Low	1x M20	1413363	1413389		
		1x M25	1413365	1413391	1414976	1414983
	High	1x M20				
		1x M25	1413375	1413401	1414978	1414981
		1x M32	1413377	1413403	1413417	1413431
		1x M40			1413419	1413433
Metal housing for increased environmental requirements (EUA)						
	Low	1x M20	1420904	1420912		
		1x M25	1420905	1420913	1420921	1420929
	High	1x M20				
		1x M25	1420900	1420908	1420917	1420925
		1x M32	1420901	1420909	1420918	1420926
		1x M40			1420919	1420927
	Low	1x M20	1420902	1420910		
		1x M25	1420903	1420911	1420920	1420928
	High	1x M20				
		1x M25	1420898	1420906	1420914	1420922
		1x M32	1420899	1420907	1420915	1420923
		1x M40			1420916	1420924
Panel mounting flanges						
	Individual		1686533	1686533	1686533	1686533
	Set		1604638	1604638	1604638	1604638
Plastic cover						
	For panel mounting side		1411494	1411504	1411517	1411520
	For sleeve housing side		1690736	1690749	1690752	1690765
Metal housing without thread hole (AL)						
	Low		1420048	1420051	1420053	1420055
	High		1420050	1420052	1420054	1420056

HPR housings, B series, with screw locking

Web code: #0520

	Height	Thread	B06	B10	B16	B24
Sleeve housing						
	High	1x M20	1411879			
		1x M25	1411106	1411882		
		1x M32		1411067	1411059	1411888
		1x M40			1411885	1411062
	High	1x M20	1411878			
		1x M25	1411119	1411881		
		1x M32		1411070	1411058	1411887
		1x M40			1411884	1411061
Panel mounting base						
	Without cover		1411122	1411083	1411060	1411055
Box mounting base						
	Without cover	1x/2x M20	1411880			
		1x/2x M25	1411135	1411883		
		1x/2x M32		1411096	1411054	1411889
		1x/2x M40			1411886	1411063
Metal cover						
	For panel mounting base and box mounting base		1418441	1418444	1418445	1418446

Technical data

Product	HEAVYCON STANDARD	HEAVYCON EVO plastic housing	HEAVYCON EVO metal housing
Housing material	Die-cast aluminum, resistant to corrosion	Polyamide	Die-cast aluminum, resistant to corrosion
Surface material	Conductive	–	Conductive
Lock material	Polyamide	Polyamide	Polyamide
Seal material	NBR, conductive	NBR	NBR, conductive
Ambient temperature (operation)	-40 °C … +125 °C	-40 °C … +125 °C	-40 °C … +125 °C
Degree of protection (when plugged in)	IP66/IP67/69K NEMA 4X/6P	IP66 NEMA 4/4X/12	IP66/IP67/69K NEMA 4X/6P

Product	HEAVYCON ADVANCE plastic housing	HEAVYCON ADVANCE metal housing	HEAVYCON ADVANCE metal housing for outdoor applications
Housing material	Polyamide	Die-cast aluminum, resistant to corrosion	Die-cast aluminum, resistant to corrosion
Surface material	–	Conductive	Powder-coated, black
Lock material	Stainless steel	Stainless steel	Stainless steel
Seal material	NBR	NBR, conductive	Viton
Ambient temperature (operating)	-40 °C … +100 °C	-40 °C … +125 °C	-40 °C … +125 °C
Degree of protection (when plugged in)	IP66/IP68 (0.2 bar, 24 h) NEMA 4X/6P	IP66/IP68 (0.2 bar, 24 h)/IP69K NEMA 4X/6P	IP66/IP68 (0.2 bar, 24 h)/IP69K NEMA 4X/6P

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Printed in Germany

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IC 03-16.001.L3
MNR 52004928/2016-06-01/06

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