



## HEAVYCON complete heavy-duty connectors

Compatible insertion – flexible combination

# HEAVYCON complete

## The right connector for every application

Heavy-duty connectors are established on the market and used in applications where robust plug-and-play solutions are required. Combine virtually any connector with the HEAVYCON complete product range – optimally tailored to the area of application, space requirements, and assembly effort.



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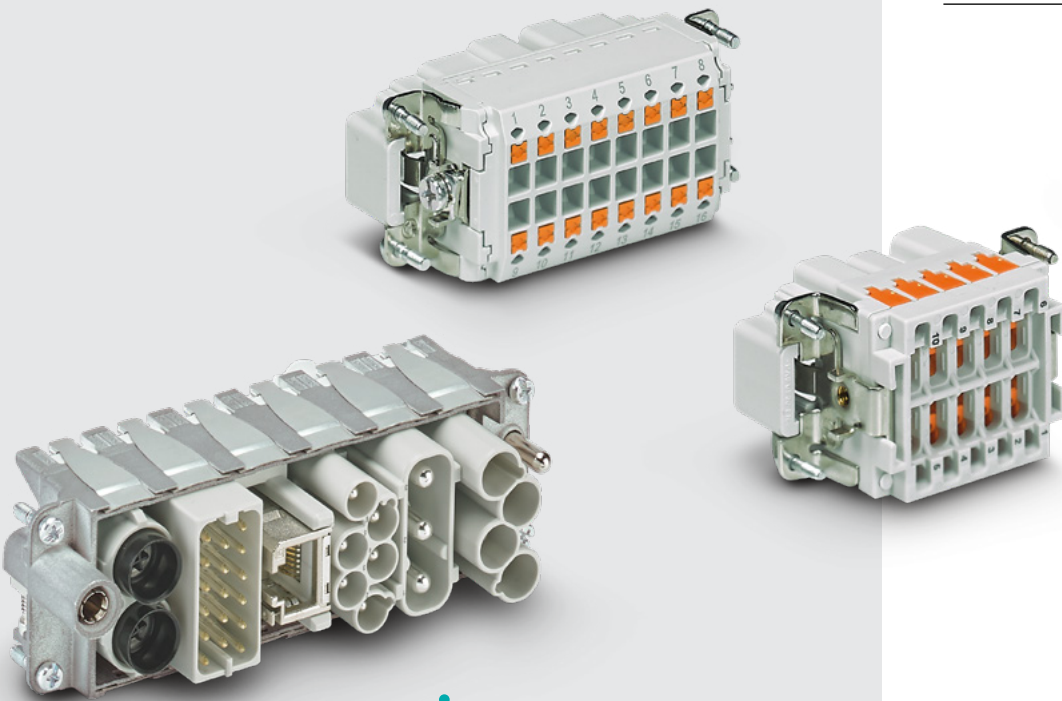
### Connector housings

If you use connectors in particularly harsh, aggressive conditions, you need reliable housings with a high degree of protection. Create the right connection for your requirements every time using the freely combinable robust HEAVYCON housings from our three series.

➤ More information starting on page 4

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## 2

### Contact inserts

Do you want to transmit various media via an interface or quickly connect cables to power distributors? Phoenix Contact provides the right solution: contact inserts with a wide range of connection technologies for transmitting data, signals, and power.

➤ More information starting on page 34

# Connector housings

## Flexible even under the harshest operating conditions

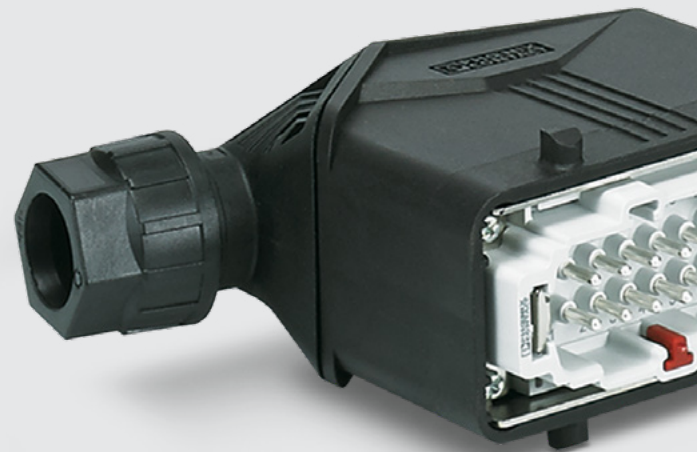
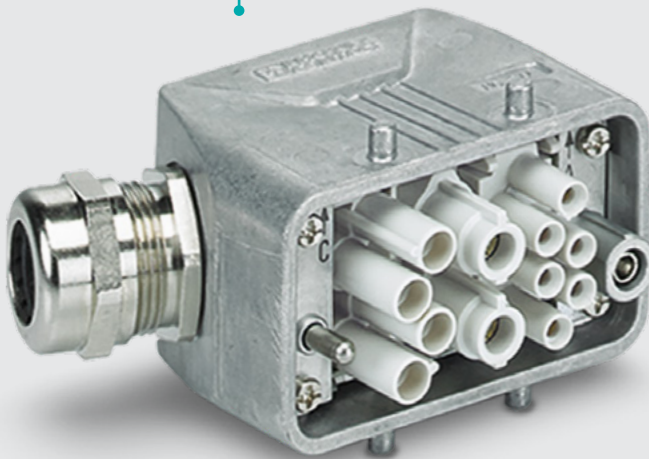
Heavy-duty connectors from the HEAVYCON complete series protect your interfaces and ensure the reliable transmission of power, data, and signals even under very harsh conditions. They are resistant to dirt, water, vibrations, and high mechanical stresses and are tight up to IP69 degree of protection. Create the right connection for your requirements every time using the freely combinable housings from our three series and the matching contact inserts.

### HEAVYCON STANDARD – proven versatility

STANDARD housings are characterized by a wide range of robust metal housings with various cable outlet directions and locking mechanisms.

- High corrosion resistance
- Single- or double-locking latch
- Mounting and plug-in compatible
- IP66/IP67

➤ More information starting on page 6



### HEAVYCON EVO – ingenious flexibility

The bayonet lock of the EVO series enables you to adjust the cable outlet direction flexibly on-site.

- Free selection of cable outlet direction
- Lower material and storage costs
- Flexible single- or double-locking latch
- Mounting and plug-in compatible

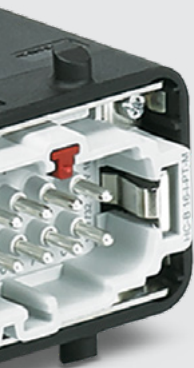
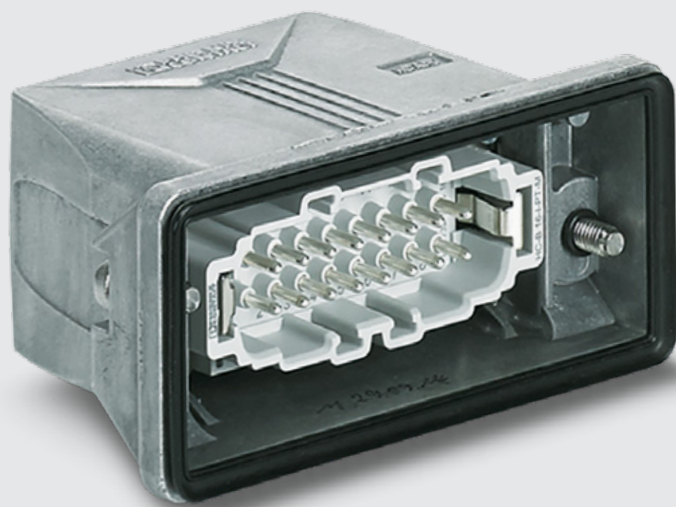
➤ More information starting on page 16

## HEAVYCON ADVANCE – robust without compromise

ADVANCE housings are particularly durable and robust due to the direct screw-locking mechanism without a panel-mount base.

- Ideal for increased environmental requirements
- Cost advantage due to direct mounting
- Mounting compatible
- IP68/IP69

➤ More information starting on page 22



### HEAVYCON HPR

The powder-coated HPR housings are especially suitable for outdoor use on a rail vehicle. They satisfy the stringent requirements of the railway industry.

➤ More information starting on page 25



### HEAVYCON accessories

The comprehensive product range of cable glands, adapters, and protective covers supports you in the safe and reliable installation of your HEAVYCON connectors.

➤ More information starting on page 26

## HEAVYCON STANDARD

### Proven versatility

HEAVYCON STA housings provide the right interface for every application. The broad portfolio includes three sizes – B, D, and COM – in die-cast aluminum and plastic with various cable outlet directions and locking mechanisms. Combine the sleeve housings with a panel-mount base, surface-mount housing, or coupling housing, according to your requirements.



### Your advantages

- ✓ Resistant to vibrations and high mechanical stresses
- ✓ Reliable in harsh environments due to robust housings with IP66/IP67 degree of protection
- ✓ Protection against electromagnetic interference with conductive surfaces and seals
- ✓ Housings are mounting and plug-in compatible with aluminum housings from well-known manufacturers

## Your advantages in detail

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Connector housings



### Compact housing versions

The compact design of the HEAVYCON COM housings enables easy and reliable cabling of decentralized structures in automation technology.



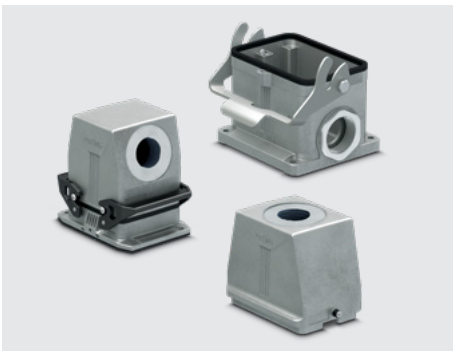
### Space-saving size

With the metal or plastic D7 connectors, you can transmit signals and power even where space is limited. They are suitable for square contact inserts.



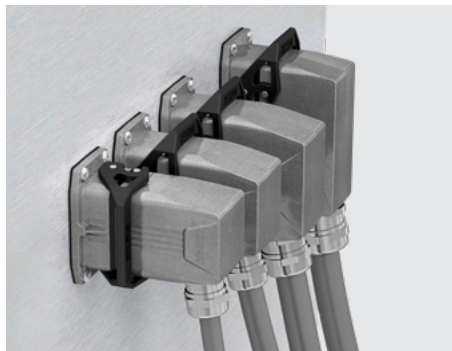
### Narrow housing designs

The housings in sizes D15, D25, and D50 now also protect your interfaces in this very narrow design. Push-in contact inserts ensure fast installation.



### Extra-large housings

Sizes B32 and B48 accommodate two contact inserts side by side. They are particularly suitable for high-position supply lines. Tall sleeve and surface-mount housings with cable outlets up to M50 provide more room for wiring large cable diameters and cable bundles.



### Convenient locking latch



The locking latch can be manually pressed quickly and easily. Housings with single-locking latch are ideal for lengthwise alignment. Double-locking latches can be installed sideways to save space.








### Various outlet directions

Choose the appropriate option from our wide range of housings. We offer sleeve housings with straight or lateral cable outlets for all common metric and Pg thread sizes.

## HEAVYCON STANDARD housings in size D7

	Cable outlet	Thread	Housing material	
			Plastic	Metal
<b>Sleeve housings for single-locking latches</b>				
	Straight	M20	1419255	1419229
		M25	1419256	1419231
		Pg11		1419232
	Lateral	M20	1419257	1419235
		M25	1419258	1419236
		Pg11		1419237


	Protective cover	Special feature	Thread	Housing material		
				Plastic	Metal	
<b>Panel-mount bases with single-locking latches, straight</b>						
	Without cover			1419265	1419249	
	With cover	For pin inserts		1419278	1419250	
		For socket inserts		1419277	1419251	
<b>Panel-mount bases with single-locking latches, angled</b>						
	Without cover	Angled		1419266	1419252	
<b>Surface-mount housings with single-locking latches</b>						
	Without cover	Open base	M20	1419267	1419253	
			Pg11		1419233	
		Enclosed base	M20	1419268	1419234	
			Pg11		1419241	
<b>Coupling housings with single-locking latches</b>						
	Without cover		M20	1419259	1419238	
			M25	1419260	1419239	
			Pg11		1419240	
	With cover		For pin inserts	M20	1419263	1419246
				M25	1419264	1419247
				Pg11		1419248
	With cover		For socket inserts	M20	1419261	1419243
				M25	1419262	1419244
				Pg11		1419245
<b>Feed-through housings with single-locking latches</b>						
	Without cover		M20	1419269	1419242	


# HEAVYCON STANDARD metal housings in sizes D15, D25, D50


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Connector housings

	Cable outlet	Installed height	Thread	Size		
				D15	D25	D50
<b>Sleeve housings for single-locking latches</b>						
	Straight	Low	M20	1424350	1424381	
			Pg13.5	1424352		
			Pg16		1424383	
		Tall	M25	1424351	1424382	1424408
			M32			1424409
			Pg16	1424353	1424384	
			Pg21	1424358	1424385	1424410
			Pg29			1424411
	Lateral	Low	M20	1424345	1424376	
			M25			1424402
			Pg16	1424347	1424378	
		Tall	Pg21			1424405
			M25	1424346	1424377	1424403
			M32			1424404
			Pg16	1424348	1424379	
			Pg21	1424349	1424380	1424406
				1424407		

	Protective cover	Installed height	Thread	Size		
				D15	D25	D50
<b>Panel-mount bases with single-locking latches</b>						
	Without cover			1424362	1424391	1424412
	With cover			1424363	1424390	

<b>Surface-mount housings with single-locking latches</b>						
	Without cover	Low	M20	1424364	1424392	
			M25	1424365	1424393	
			Pg16	1424366	1424394	
			Pg21	1424367	1424395	
		Tall	M25			1424413
			M32			1424414
			Pg21			1424415
			Pg29			1424416
	With cover	Low	M20	1424369	1424396	
			M25	1424371	1424397	
			Pg16	1424372	1424398	
			Pg21	1424373	1424399	

<b>Coupling housings with single-locking latches</b>						
	Without cover	Tall	M25	1424361	1424387	
			Pg16	1424360	1424389	

# HEAVYCON STANDARD metal housings in size COMPACT (COM)

	Cable outlet	Thread	Housing material				
			Plastic	Metal			
<b>Sleeve housings for single-locking latches</b>							
	Straight	M25	1012520	1078590			
	Lateral		1012581	1078592			
	Cable outlet	Protective cover	Installed height	Thread	Housing material		
					Plastic	Metal	
<b>Panel-mount bases with single-locking latches, straight</b>							
		Without cover			1012538	1078594	
<b>Panel-mount bases with single-locking latches, angled</b>							
		Without cover			1012433	1078593	
<b>Surface-mount housings with single-locking latches</b>							
		Lateral	Without cover	Tall	M25	1079393	1078596
<b>Coupling housings with single-locking latches</b>							
		Straight	Without cover	Tall	M25	1012521	1078595



# HEAVYCON STANDARD metal housings in size B

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Connector housings

	Cable outlet	Installed height	Thread	Size		
				B10	B16	B24
<b>Sleeve housings with double-locking latch</b>						
	Straight	Low	M20	1412637		
			M25	1412638	1412738	1412799
			M32		1412739	1412800
			Pg16	1412639	1412740	1412801
			Pg21	1412640	1412741	1412802
			Pg29			1412803
		Tall	M25	1412612		
			M32	1412613	1412708	1412769
			M40		1412709	1412770
			Pg21	1412614	1412715	1412771
	Lateral	Low	Pg29	1412615	1412716	1412772
			M20	1412633		
			M25	1412634	1412733	1412793
			M32		1412734	1412795
			Pg16	1412635	1412735	1412796
			Pg21	1412636	1412737	1412797
		Tall	M25	1412608		
			M32	1412609	1412703	1412764
			M40		1412704	1412766
			Pg21	1412610	1412705	1412767
Variable	Low		1420034	1420036	1420046	
	Tall		1420035	1420044	1420047	

	Protective cover	Installed height	Thread	Size		
				B10	B16	B24
<b>Panel-mount bases for double-locking latch</b>						
	With cover			1411323	1411328	1411332
<b>Surface-mount housings for double-locking latch</b>						
	With cover	Low	M20	1412830		
			M25	1412831	1412849	1412869
			M32		1412850	1412870
			Pg16	1412832	1412852	
			Pg21		1412853	1412871

## HEAVYCON STANDARD metal housings in size B




	Cable outlet	Installed height	Thread	Size			
				B10	B16	B24	B32
<b>Sleeve housings for double-locking latch</b>							
	Straight	Low	M20	1412620			
			M25	1412621	1412721	1412778	
			M32		1412722	1412779	
			Pg16	1412622	1412723	1412780	
			Pg21	1412623	1412724	1412781	
		Tall	M25	1412596			
			M32	1412597	1412653	1412754	1424830
			M40		1412654	1412099	1424831
			M50		1082552		1424832
			Pg21	1412598	1412669	1412755	
			Pg29	1412599	1412678	1412756	1424827
			Pg36				1424828
			Pg42				1424829
			Lateral	Low	M20	1412616	
	M25	1412617			1412717	1412773	
	M32				1412718	1412774	
	Pg16	1412618			1412719	1412775	
	Pg21	1412619			1412720	1412776	
	Tall	M25		1412592			
		M32		1412593	1412649	1412750	1424836
		M40			1412650	1412751	1424837
		M50			1082551		1424838
		Pg21		1412594	1412651	1412752	
		Pg29		1412595	1412652	1412753	1424833
		Pg36					1424834
		Pg42					1424835
		Variable		Low		1419972	1419999
	Tall			1419979	1420000	1420011	

# HEAVYCON STANDARD metal housings in size B


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Connector housings

	Protective cover	Installed height	Thread	Size			
				B10	B16	B24	B32
<b>Panel-mount bases with double-locking latch</b>							
	Without cover			1411322	1411327	1411331	1424845
<b>Surface-mount housings with double-locking latch</b>							
	Without cover	Low	M20	1412835			
			M25	1412836	1412855	1412873	
			M32		1412856	1412874	
			Pg16	1412837			
			Pg21	1412838	1412857	1412875	
			Pg29		1412860	1412876	
		Tall	M25	1082598	1082600	1082603	
			M32	1082599	1082601	1082604	1424848
			M40	1083164	1082602	1082605	1424849
			Pg29				1424846
		Pg36				1424847	
<b>Coupling housings with double-locking latch</b>							
	Without cover	Tall	M20	1412578			
			M25	1412579	1412641		
			M32	1412580	1412642	1412742	1424842
			M40			1412743	1424843
			M50				1424844
			Pg16	1412581			
			Pg21	1412582	1412643	1412744	
			Pg29	1412583	1412644	1412745	1424839
			Pg36				1424840
			Pg42				1424841

# HEAVYCON STANDARD metal housings in size B

	Cable outlet	Installed height	Thread	Size				
				B06	B10	B16	B24	B48
<b>Sleeve housings for single-locking latches</b>								
	Straight	Low	M20	1412574	1412629			
			M25	1412575	1412630	1412729	1412788	
			M32			1412730	1412789	
			Pg13.5	1412576				
			Pg16	1412577	1412631	1412731	1412790	
			Pg21		1412632	1412732	1412791	
		Tall	M25	1412566	1412604			
			M32	1412567	1412605	1412689	1412761	1424854
			M40			1412700	1412098	1424855
			M50					1424856
			Pg21	1412568	1412606	1412701	1412762	
			Pg29	1412569	1412607	1412702	1412763	1424851
			Pg36					1424852
			Pg42					1424853
	Lateral	Low	M20	1412570	1412624			
			M25	1412571	1412625	1412725	1412783	
			M32			1412726	1412784	
			Pg13.5	1412572				
			Pg16	1412573	1412627	1412727	1412785	
			Pg21		1412628	1412728	1412786	
		Tall	M25	1412562	1412600			
			M32	1412563	1412601	1412679	1412757	1424860
			M40			1412682	1412758	1424861
			M50					1424862
			Pg21	1412564	1412602	1412683	1412759	
			Pg29	1412565	1412603	1412684	1412760	1424857
			Pg36					1424858
			Pg42					1424859
Variable	Low			1419900	1419902	1419905	1419937	
	Tall			1419901	1419903	1419934	1419957	

# HEAVYCON STANDARD metal housings in size B

	Protective cover	Installed height	Thread	Size				
				B06	B10	B16	B24	B48
<b>Panel-mount bases with single-locking latch</b>								
	With cover			1411319	1411321	1411325	1411330	1424864
	Without cover			1411318	1411320	1411324	1411329	1424863
<b>Surface-mount housings with single-locking latch</b>								
	With cover	Low	M20	1412825	1412844			
			M25	1412826	1412845	1412865	1412881	
			Pg16	1412827	1412846			
			M32			1412866	1412882	
		Pg21			1412867	1412883		
		Tall	M25	1082575	1082582	1082589	1082595	
			M32	1082576	1082583	1082590	1082596	1424873
			M40	1082577	1082585	1082591	1082597	1424874
			Pg29					1424869
	Pg36						1424872	
	Without cover	Low	M20	1412821	1412839			
			M25	1412822	1412840	1412861	1412877	
			Pg16	1412823	1412842			
			Pg21	1412824	1412843	1412863	1412879	
		Tall	M32			1412862	1412878	
			M25	1082556	1082578	1082586		
			M32	1082559	1082579	1082587	1082592	1424867
			M40	1082566	1082580	1082588	1082593	1424868
			Pg29					1424865
Pg36							1424866	
<b>Coupling housings with single-locking latch</b>								
	Without cover	Tall	M20	1412555	1412584			
			M25	1412556	1412585	1412645		
			M32	1412557	1412586	1412646	1412746	
			Pg21	1412559	1412588	1412647	1412748	
			Pg29	1412560	1412589	1412648	1412749	
			Pg16		1412587			
			M40				1412747	

Connector housings

## HEAVYCON EVO

### Ingenious flexibility

Switch to HEAVYCON EVO now and save on material and storage costs. The flexibly mounted cable gland with bayonet lock replaces up to eight conventional sleeve housings. The angled outlet means that both outlet directions can be used conveniently.



#### Your advantages

- ✓ Safe and reliable use with IP66/IP67 degree of protection and IK09 impact resistance
- ✓ Protection against electromagnetic interference with conductive surfaces and seals
- ✓ Housings are mounting and plug-in compatible with aluminum housings from well-known manufacturers

## Your advantages in detail

1

2



### Two outlet directions

With the flexible bayonet lock, you can determine the cable outlet direction on-site and change it again later. You can choose between a straight or lateral outlet.



### Reduced number of versions

HEAVYCON EVO housings reduce the number of versions, and therefore your storage costs, by up to 70%. Using just one housing type and four cable glands, you can implement solutions for every possible application.



### Fully compatible

The sleeve housing and base housing are mounting and plug-in compatible with aluminum housings from well-known manufacturers. All contact inserts in the B series format can be used in the housings.



### Flexible in a small installation space

The M1 single-module housings made of plastic accommodate a modular contact insert and a PE module. This enables a particularly compact interface.



### For conditions with limited space



EVO housings in sizes D15 and D25 are very narrow and protect your interfaces even when space is limited.



### Two flexible cable outlets

The EVO TWIN housings have two flexible cable outlets on one plastic housing, providing space for different cables.

# HEAVYCON EVO plastic housings in size M1

	Cable outlet	Protective cover	Installed height	Thread	Size M1
<b>Sleeve housings for single-locking latches</b>					
	Straight	Without cover	Tall	Bayonet D plastic	1424436
<b>Panel-mount bases with single-locking latches</b>					
		Without cover			1424437

## HEAVYCON EVO M1 single-module housings

The M1 single-module housings made of plastic accommodate a modular contact insert and a PE module. This enables a particularly space-saving interface.

The HEAVYCON EVO M1 connectors

offer a very compact, robust, and flexible connection for cabling decentralized structures and in applications with limited space. The use of HEAVYCON modular contact inserts with push-in connection enables quick, tool-free installation. The comprehensive product range of contact insert modules ensures the right solution

for every application. We offer modules for currents of up to 200 A, voltages of up to 5,000 V, signal transmission up to 25-pos., reliable data transfer, and inserts for pneumatic applications. With the flexible bayonet lock of the cable gland, the cable outlet direction can be determined on-site and changed again later. Choose between a straight or lateral outlet.






*Achieve a high degree of flexibility in a small installation space with the HEAVYCON EVO M1 housing*

# HEAVYCON EVO plastic housings in size D


	Protective cover	Thread	Size	
			D15	D25
<b>Sleeve housings for single-locking latches</b>				
	Without cover	Bayonet D plastic	<a href="#">1411340</a>	<a href="#">1411347</a>
<b>Panel-mount bases with single-locking latches</b>				
	Without cover		<a href="#">1411336</a>	<a href="#">1411344</a>
	With cover		<a href="#">1411337</a>	<a href="#">1411345</a>
<b>Surface-mount housings with single-locking latches</b>				
	Without cover	M20	<a href="#">1421463</a>	<a href="#">1421466</a>
		M25	<a href="#">1411341</a>	<a href="#">1411348</a>
	With cover	M20	<a href="#">1421465</a>	<a href="#">1421467</a>
		M25	<a href="#">1411343</a>	<a href="#">1411349</a>
<b>Coupling housings with single-locking latches</b>				
	Without cover	Bayonet D plastic	<a href="#">1411338</a>	<a href="#">1411346</a>


# HEAVYCON EVO plastic housings in size B


	Cable outlet	Protective cover	Installed height	Thread	Size		
					B10	B16	B24
<b>Sleeve housings with double-locking latch</b>							
	Straight	Without cover	Low	Bayonet B plastic	1407630	1420933	1420936
			Tall		1407631	1407644	1407658
<b>Panel-mount bases for double-locking latch</b>							
		With cover			1407635	1407649	1407662
<b>Surface-mount housings for double-locking latch</b>							
	Lateral	With cover	Tall	M20	1421362		
				M25	1421320	1421458	1421462
				M32	1407639	1421366	1421380
				M40		1407653	1407666


	Cable outlet	Protective cover	Installed height	Thread	Size		
					B10	B16	B24
<b>Sleeve housings for double-locking latch</b>							
	Straight	Without cover	Low	Bayonet B plastic	1407628	1420932	1420935
			Tall		1407629	1407643	1407657
<b>Sleeve housings for double-locking latch with two cable outlets</b>							
	Straight	Without cover	Tall	Bayonet B plastic	1411495	1411496	1411497
<b>Panel-mount bases with double-locking latch</b>							
		Without cover			1407634	1407648	1407661
<b>Surface-mount housings with double-locking latch</b>							
	Lateral	Without cover	Tall	M20	1421356		
				M25	1421304	1421455	1421461
				M32	1407638	1421365	1421370
				M40		1407652	1407665


# HEAVYCON EVO plastic housings in size B


	Cable outlet	Protective cover	Installed height	Thread	Size		
					B10	B16	B24
<b>Coupling housings with double-locking latches</b>							
	Straight	Without cover	Tall	Bayonet B plastic	1407641	1407655	1407668

	Cable outlet	Protective cover	Installed height	Thread	Size			
					B06	B10	B16	B24
<b>Sleeve housings for single-locking latches</b>								
	Straight	Without cover	Low	Bayonet B plastic	1407619	1407626	1420931	1420934
			Tall		1407620	1407627	1407642	1407656

<b>Sleeve housings for single-locking latches with two cable outlets</b>								
	Straight	Without cover	Tall	Bayonet B plastic	1420930			

<b>Panel-mount bases with single-locking latches</b>								
		With cover			1407622	1407633	1407647	1407660
		Without cover			1407621	1407632	1407646	1407659

<b>Surface-mount housings with single-locking latches</b>								
	Lateral	With cover	Tall	M20	1421329			
				M25	1421244	1421301	1421382	1421460
				M32	1407624	1407637	1421364	1421369
				M40			1407651	1407664
		Without cover		M20	1421322	1421354		
				M25	1421229	1421277	1421381	1421459
				M32	1407623	1407636	1421363	1421367
				M40			1407650	1407663

<b>Coupling housings with single-locking latches</b>								
	Straight	Without cover	Tall	Bayonet B plastic	1407625	1407640	1407654	1407667

## HEAVYCON ADVANCE

### Robust without compromise

HEAVYCON ADVANCE housings with a screw-locking mechanism are suitable for particularly aggressive surroundings, e.g., in offshore areas or the chemical or railway industry. Sensitive interfaces are reliably protected, even against electromagnetic interference.

The panel-mount base that is normally used is replaced by two panel-mount flanges. With this method, the sleeve housing forms a seal directly on the control cabinet panel.



#### Your advantages

- ✓ Save space and costs, as no panel-mount base is required
- ✓ Safe and reliable use with up to IP69 degree of protection and IK09 impact resistance
- ✓ Protection against electromagnetic interference with conductive surfaces and seals

## Your advantages in detail

1

2

Connector housings



### For all applications

HEAVYCON ADVANCE is available in metal and plastic versions. The powder-coated outdoor housings are suitable for extreme demands.



### Robust screw-locking mechanism

Mount the ADVANCE sleeve housing with two panel-mount flanges and robust stainless steel locking screws directly onto the panel. This achieves a high degree of tightness and makes it more difficult for unauthorized persons to gain access.



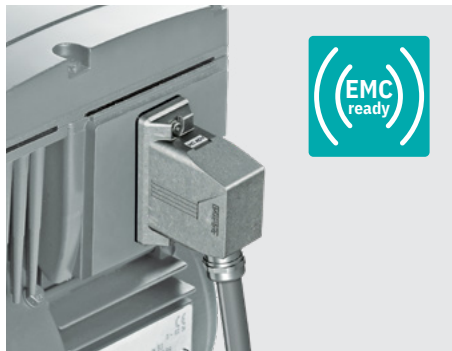
### Save space without a panel-mount base

HEAVYCON ADVANCE eliminates the need for the panel-mount base that is normally used on the device side. The housings are therefore particularly durable, robust, and space-saving.



### Cost-effective designs

With no panel-mount base required, you save on mounting and material costs. The low-profile designs of the metal housings and the molded cable glands of the plastic housings offer further savings potential.



### EMC protection





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



### For aggressive environmental conditions

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

## HEAVYCON ADVANCE housings in size B

	Cable outlet	Protective cover	Installed height	Thread	Size					
					B06	B10	B16	B24		
<b>Sleeve housings with screw-locking mechanisms, plastic</b>										
	Straight	Without cover	Tall	M20	1404222					
				M25	1404225	1404227				
				M32		1404229	1404231	1404235		
				M40			1404233	1404238		
	Lateral			M20	1404224					
				M25	1404226	1404228				
				M32		1404230	1404232	1404237		
				M40			1404234	1404239		
<b>Sleeve housings with screw-locking mechanisms, metal</b>										
	Straight	Without cover	Low	M20	1413362	1413388				
				M25	1413364	1413390	1414975	1414982		
			Tall	M25	1413374	1413400	1414977	1414980		
				M32	1413376	1413402	1413416	1413430		
	Lateral		Low	M20	1413363	1413389				
				M25	1413365	1413391	1414976	1414983		
			Tall	M25	1413375	1413401	1414978	1414981		
				M32	1413377	1413403	1413417	1413431		
	Variable		Low		1420048	1420051	1420053	1420055		
			Tall		1420050	1420052	1420054	1420056		
	<b>Sleeve housings with screw-locking mechanisms for outdoor applications</b>									
			Straight	Without cover	Low	M20	1420904	1420912		
M25		1420905				1420913	1420921	1420929		
Tall		M25			1420900	1420908	1420917	1420925		
		M32			1420901	1420909	1420918	1420926		
Lateral		Low	M40				1420919	1420927		
			M20		1420902	1420910				
		M25	1420903		1420911	1420920	1420928			
		Tall	M25		1420898	1420906	1420914	1420922		
			M32		1420899	1420907	1420915	1420923		
		M40				1420916	1420924			
<b>Panel-mount flanges</b>										
	Single without screws			1686533						
	Set of 2 with screws			1604638						



# HEAVYCON HPR housings for railway applications




## Connectors for rail vehicles

The HEAVYCON HPR housing is intended for use in transport and transportation technology. The sleeve housings, panel-mount bases, and surface-mount housings conform to the established standard for the safe transmission of signal and power circuits on rail vehicles. Due to the special powder coating and UV-resistant seals, they can withstand aggressive environmental conditions.

The robust screw-locking mechanism offers reliable vibration and shock resistance in accordance with IEC 61373/EN 50155. The IP68/IP69K degree of protection ensures reliable protection against water and dirt.



	Cable outlet	Thread	Size				
			D7	B06	B10	B16	B24
<b>Sleeve housings with screw-locking mechanisms</b>							
	Straight	M20	1424638	1411879			
		M25	1424639	1411106	1411882		
		M32			1411067	1411059	1411888
		M40				1411885	1411062
	Lateral	M20		1411878			
		M25		1411119	1411881		
		M32			1411070	1411058	1411887
		M40				1411884	1411061

	Protective cover	Thread	Size				
			D7	B06	B10	B16	B24
<b>Panel-mount bases for screw-locking mechanisms, straight</b>							
	Without cover		1424637	1411122	1411083	1411060	1411055
<b>Panel-mount bases for screw-locking mechanisms, angled</b>							
	Without cover		1424635				
<b>Surface-mount housings for screw-locking mechanisms</b>							
	Without cover	M20	1424641	1411880			
		M25		1411135	1411883		
		M32			1411096	1411054	1411889
		M40				1411886	1411063

# Accessories for HEAVYCON connector housings

## Cable glands and protective covers

The comprehensive HEAVYCON range of accessories ensures safe and durable installation in every application.

### Cable glands and adapters

The reliable seal and strain relief of the cable outlet on the HEAVYCON housing is made possible by our cable glands made of polyamide or brass. For shielded cables, EMC cable glands are available with elastic shield contact springs. Cable glands with a slotted or two-piece seal allow the easy and tight insertion of preassembled cables.

### Protective covers

Reliably protect your interfaces against dirt and water during transport or prior to mounting. We offer different protective covers for each HEAVYCON housing series.



EVO cable gland with bayonet lock		
Thread	EVO D housing	EVO B housing
	PA	PA
M20	<a href="#">1411350</a>	<a href="#">1407669</a>
M25	<a href="#">1411351</a>	<a href="#">1407670</a>
M32		<a href="#">1407671</a>
M40		<a href="#">1407672</a>

EVO thread adapter with bayonet lock		
Thread	EVO D housing	EVO B housing
	PA	PA
M20		<a href="#">1414243</a>
M25	<a href="#">1411352</a>	<a href="#">1414244</a>
M32		<a href="#">1414245</a>
M40		<a href="#">1414246</a>
Pg13.5		<a href="#">1414247</a>
Pg16	<a href="#">1411353</a>	<a href="#">1414248</a>
Pg21		<a href="#">1414249</a>
Pg29		<a href="#">1414250</a>

# Cable glands

1




2

Connector housings

Cable glands							
							
		PA			Brass, nickel-plated		Stainless steel 1.4305
						EMC	
Thread	Clamping range	Jet black	Silver gray	Light gray	Silver colored		
M20	6 mm ... 12 mm	1411133	1411125	1414568	1411163		1424543
	9 mm ... 13 mm					1411189	
	10 mm ... 14 mm	1424481	1424476	1424471			
M25	10 mm ... 14 mm				1424527		
	11 mm ... 17 mm	1411134	1411126	1417654	1411165	1411190	1424544
	13 mm ... 18 mm	1424482	1424477	1424472			
M32	13 mm ... 18 mm				1424528		
	14 mm ... 21 mm					1411191	
	15 mm ... 21 mm	1411136	1411127	1417655	1411166		1424545
	18 mm ... 25 mm	1424483	1424478	1424473			
M40	18 mm ... 25 mm				1424529		
	19 mm ... 28 mm	1411137	1411128	1417656	1411167	1411192	1424546
	22 mm ... 32 mm	1424484	1424479	1424474			
M50	22 mm ... 32 mm				1424530		
	24 mm ... 35 mm					1411193	
	27 mm ... 38 mm				1411168		
	30 mm ... 36 mm	1411138	1411129	1417657			
Pg11	5 mm ... 10 mm	1424497	1411142	1424487	1411172	1411197	
Pg13.5	6 mm ... 12 mm	1424498	1411143	1424488	1411173	1411198	
Pg16	10 mm ... 14 mm	1424499	1411144	1424489	1411174	1411199	
Pg21	13 mm ... 18 mm	1424500	1411145	1424490	1411175	1411200	
Pg29	18 mm ... 25 mm	1424501	1411146	1424491	1411176	1411201	
Pg36	22 mm ... 32 mm	1424502	1411147	1424492	1411178	1411202	
Pg42	30 mm ... 38 mm	1424503	1411149	1424493	1411179	1411203	

# Cable glands

## Cable glands with strain relief

					
		<b>With external strain relief</b>		<b>With cable bend protection and strain relief</b>	<b>With strain relief clamp</b>
		<b>PA</b>	<b>Brass, nickel-plated</b>		
<b>Thread</b>	<b>Clamping range</b>	<b>Jet black</b>	<b>Silver colored</b>		
M20	6 mm ... 13 mm	<a href="#">1415189</a>	<a href="#">1415192</a>		
	7.5 mm ... 15 mm			<a href="#">1646188</a>	
M25	9 mm ... 17 mm	<a href="#">1415190</a>	<a href="#">1415193</a>		
	10 mm ... 19 mm			<a href="#">1646191</a>	
M32	13 mm ... 21 mm	<a href="#">1415191</a>	<a href="#">1415194</a>		
	18 mm ... 27 mm			<a href="#">1646201</a>	<a href="#">1646162</a>
M40	16 mm ... 28 mm		<a href="#">1415195</a>		
	24 mm ... 33 mm				<a href="#">1646175</a>

## Cable glands with bend protection

				
		<b>PA</b>		<b>Brass, nickel-plated</b>
<b>Thread</b>	<b>Clamping range</b>	<b>Jet black</b>	<b>Light gray</b>	<b>Silver colored</b>
M20	6 mm ... 13 mm	<a href="#">1415179</a>	<a href="#">1415174</a>	<a href="#">1415182</a>
M25	9 mm ... 17 mm	<a href="#">1415180</a>	<a href="#">1415175</a>	<a href="#">1415183</a>
M32	13 mm ... 21 mm	<a href="#">1415181</a>	<a href="#">1415176</a>	<a href="#">1415184</a>
M40	16 mm ... 28 mm			<a href="#">1415185</a>

# Cable glands

Screw connections for PA protective hoses								
								
		PA 6						
		Straight			Angled			
					With strain relief			
Outside diameter	Thread	IP68 / IP69K	IP68 / IP69K	IP66	IP68 / IP69K	IP66	IP68 / IP69K	
15.8 mm	M20			3240954	3240940	3240926		
21.2 mm		3240898	3240884				3240912	
28.5 mm	M25			3240955	3240941	3240927		
		3240899	3240885				3240913	
34.5 mm	M32			3240956	3240942	3240928		
		3240900	3240886				3240914	
42.5 mm	M40			3240957	3240943	3240929		
		3240901	3240887				3240915	
15.8 mm	Pg11	3240890	3240876	3240946	3240932	3240918	3240904	
21.2 mm	Pg16	3240891	3240877	3240947	3240933	3240919	3240905	
28.5 mm	Pg21	3240892	3240878	3240948	3240934	3240920	3240906	
34.5 mm	Pg29	3240893	3240879	3240949	3240935	3240921	3240907	
42.5 mm	Pg36	3240894	3240880	3240950	3240936	3240922	3240908	

# Cable glands and adapters

## Screw connections for protective hoses with uncoated spirals, made of steel and stainless steel

Outside diameter	Thread	PP		Brass, nickel-plated		
		Straight				
		Can be rotated		Can be rotated		
		IP54	IP65	IP40	IP65	IP40
17 mm	M20	<a href="#">3241012</a>				
21 mm			<a href="#">3240998</a>	<a href="#">3241033</a>	<a href="#">3241061</a>	<a href="#">3241047</a>
27 mm	M25	<a href="#">3241013</a>				
			<a href="#">3240999</a>	<a href="#">3241034</a>	<a href="#">3241062</a>	<a href="#">3241048</a>
36 mm	M32	<a href="#">3241014</a>				
			<a href="#">3241000</a>	<a href="#">3241035</a>	<a href="#">3241063</a>	<a href="#">3241049</a>
45 mm	M40	<a href="#">3241015</a>				
			<a href="#">3241001</a>	<a href="#">3241036</a>	<a href="#">3241064</a>	<a href="#">3241050</a>
17 mm	Pg11	<a href="#">3241004</a>	<a href="#">3240990</a>	<a href="#">3241025</a>	<a href="#">3241053</a>	<a href="#">3241039</a>
21 mm	Pg16	<a href="#">3241005</a>	<a href="#">3240991</a>	<a href="#">3241026</a>	<a href="#">3241054</a>	<a href="#">3241040</a>
27 mm	Pg21	<a href="#">3241006</a>	<a href="#">3240992</a>	<a href="#">3241027</a>	<a href="#">3241055</a>	<a href="#">3241041</a>
36 mm	Pg29	<a href="#">3241007</a>	<a href="#">3240993</a>	<a href="#">3241028</a>	<a href="#">3241056</a>	<a href="#">3241042</a>
45 mm	Pg36	<a href="#">3241008</a>	<a href="#">3240994</a>	<a href="#">3241029</a>	<a href="#">3241057</a>	<a href="#">3241043</a>




### Reducing adapters

Thread	Images	
	PA	Brass, nickel-plated
	Jet black	Silver colored
M20 / M16		<a href="#">1647611</a>
M25 / M20	<a href="#">1411232</a>	<a href="#">1647624</a>
M32 / M20	<a href="#">1410725</a>	
M32 / M25	<a href="#">1410712</a>	<a href="#">1647637</a>
M40 / M25	<a href="#">1410741</a>	
M40 / M32	<a href="#">1410738</a>	<a href="#">1647640</a>
Pg16 / Pg13.5		<a href="#">1415216</a>
Pg21 / Pg16		<a href="#">1415217</a>
Pg29 / Pg21		<a href="#">1415218</a>

### Extension adapters

Thread	Images	
	Brass, nickel-plated	
	Silver colored	
M16 / M20	<a href="#">1647653</a>	
M20 / M25	<a href="#">1647666</a>	
M25 / M32	<a href="#">1647679</a>	
M32 / M40	<a href="#">1647682</a>	
Pg13.5 / Pg16	<a href="#">1415219</a>	
Pg16 / Pg21	<a href="#">1415220</a>	
Pg21 / Pg29	<a href="#">1415221</a>	

# Cable glands and adapters for NPT threads

Cable glands											
											
Thread	Cable diameter								Plastic		Metal
	IEC (mm)		IEC (in)		UL 514B (mm)		UL 514B (in)		Black	Gray	Nickel-plated brass
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.			
3/8"	5	10	0.20	0.39	6	10	0.24	0.39	<a href="#">1411156</a>	<a href="#">1411152</a>	<a href="#">1411182</a>
1/2"	10	14	0.39	0.55	10	14	0.39	0.55	<a href="#">1411157</a>	<a href="#">1411153</a>	<a href="#">1411183</a>
3/4"	13	18	0.51	0.71	13	18	0.51	0.71	<a href="#">1411158</a>	<a href="#">1411154</a>	<a href="#">1411184</a>
1"	18	25	0.71	0.98	18	25	0.71	0.98	<a href="#">1411159</a>	<a href="#">1411155</a>	<a href="#">1411185</a>

Counter nuts for direct panel mounting			
Thread	Plastic		Metal
	Black	Gray	Nickel-plated brass
3/8"	<a href="#">1411236</a>	<a href="#">1411231</a>	<a href="#">1416009</a>
1/2"	<a href="#">1411237</a>	<a href="#">1411233</a>	<a href="#">1416010</a>
3/4"	<a href="#">1411238</a>	<a href="#">1411234</a>	<a href="#">1416011</a>
1"	<a href="#">1411239</a>	<a href="#">1411235</a>	<a href="#">1416012</a>

Thread adapters					
Thread		EVO D/M1 housing	EVO B housing		NPT adapter
External	NPT internal	Plastic	Plastic	Metal	Metal
		Black	Black	Nickel-plated brass	Nickel-plated brass
M20	1/2"		<a href="#">1414251</a>	<a href="#">1414264</a>	<a href="#">1686847</a>
Pg13.5					<a href="#">5540691</a>
Pg16					<a href="#">5540701</a>
M25	3/4"	<a href="#">1411354</a>	<a href="#">1414252</a>	<a href="#">1414265</a>	<a href="#">1686850</a>
Pg21					<a href="#">5540714</a>
M32	1"		<a href="#">1414253</a>	<a href="#">1414266</a>	<a href="#">1686863</a>
Pg29					<a href="#">5540811</a>
M40	1 1/4"		<a href="#">1414254</a>	<a href="#">1414267</a>	<a href="#">1687587</a>
Pg36					<a href="#">5537387</a>



# Protective covers for HEAVYCON STANDARD and EVO housings

	Material	Seal	Color	Size				
				D7	D15	D25	D50	COM
<b>Protective covers for single-locking latches, with retaining cord</b>								
	PA	Yes	Black	<a href="#">1419270</a>				<a href="#">1079397</a>
		No	Black	<a href="#">1419271</a>				<a href="#">1079396</a>
	PC	Yes	Black		<a href="#">1346518</a>	<a href="#">1346522</a>		
<b>Protective covers with single-locking latches, with retaining cord</b>								
	PA	Yes	Black	<a href="#">1419274</a>				<a href="#">1079394</a>
		No	Black	<a href="#">1419275</a>				<a href="#">1079395</a>
	PC	No	Black		<a href="#">1346521</a>	<a href="#">1346523</a>		
<b>Protective covers for double-locking latches, with retaining cord</b>								
	PA	No	Black				<a href="#">1424417</a>	
<b>Protective covers with double-locking latches, with retaining cord</b>								
	PC	Yes	Black				<a href="#">1346553</a>	
<b>Protective covers for single-locking latches, for screwing on</b>								
	PC	No	Black		<a href="#">1414673</a>	<a href="#">1414674</a>		


# Protective covers for HEAVYCON STANDARD and EVO housings

	Material	Seal	Color	Size					
				B06	B10	B16	B24	B32	M1
<b>Protective covers for single-locking latches, with retaining cord</b>									
	PC	No	Black	<a href="#">1346524</a>	<a href="#">1346526</a>	<a href="#">1346537</a>	<a href="#">1346545</a>		<a href="#">1346556</a>
<b>Protective covers with single-locking latch, with retaining cord</b>									
	PC	Yes	Black	<a href="#">1346525</a>	<a href="#">1346528</a>	<a href="#">1346541</a>	<a href="#">1346550</a>		
<b>Protective covers for double-locking latches, with retaining cord</b>									
	PA	No	Gray					<a href="#">1646120</a>	
		No	Black					<a href="#">1424850</a>	
	PC	Yes	Black		<a href="#">1346529</a>	<a href="#">1346543</a>	<a href="#">1346551</a>		
		No	Black		<a href="#">1346527</a>	<a href="#">1346539</a>	<a href="#">1346546</a>		
<b>Protective covers with double-locking latches, with retaining cord</b>									
	PC	Yes	Black		<a href="#">1346530</a>	<a href="#">1346544</a>	<a href="#">1346552</a>	<a href="#">1346555</a>	
<b>Protective covers for single-locking latches, for screwing on</b>									
	PC	No	Black	<a href="#">1407692</a>	<a href="#">1407693</a>	<a href="#">1407694</a>	<a href="#">1407695</a>		
<b>Protective covers with clip locking</b>									
	PA	No	Transparent	<a href="#">1421100</a>	<a href="#">1421101</a>	<a href="#">1421102</a>	<a href="#">1421103</a>		

## Protective covers for HEAVYCON ADVANCE housings

	Material	Seal	Color	Size			
				B06	B10	B16	B24
<b>Protective covers with screw- locking mechanisms, with retaining cord</b>							
	PA	Yes	Gray	1411494	1411504	1411517	1411520
<b>Protective covers with clip locking, with retaining cord</b>							
	PA	No	Gray	1690736	1690749	1690752	1690765

## Protective covers for HEAVYCON HPR housings

	Material	Seal	Color	Size				
				D7	B06	B10	B16	B24
<b>Protective covers with screw-locking mechanisms</b>								
	Die-cast aluminum	No	Black		1418441	1418444	1418445	1418446
	Die-cast zinc	No	Black	1424636				

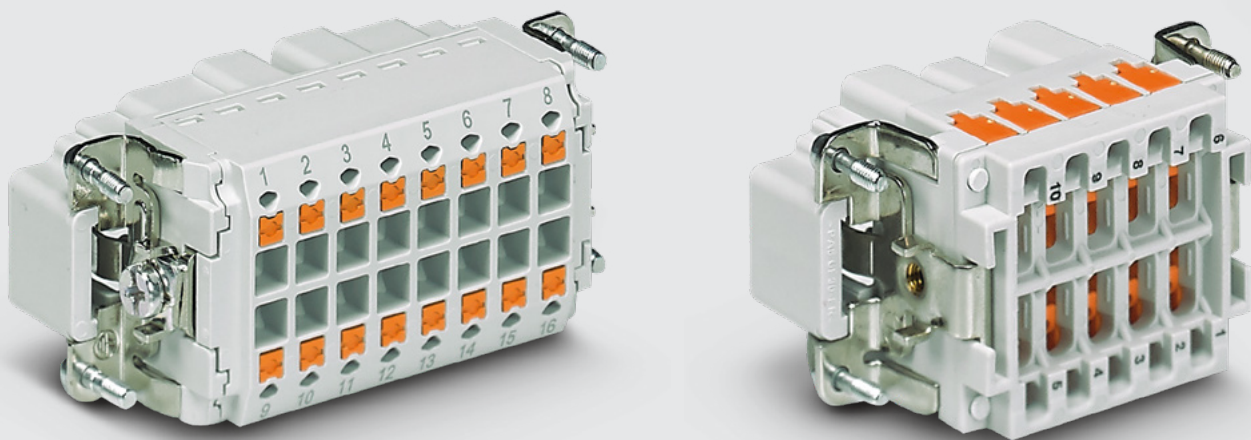


# Contact inserts

## Fixed-position or modular

Do you want to transmit various media via an interface or quickly connect cables to power distributors? We provide the right solution: contact inserts for heavy-duty connectors with a wide range of connection technologies for transmitting data, signals, and power.

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



### HEAVYCON fixed-position

HEAVYCON fixed-position contact inserts offer fast assembly and are compatible with all conventional sizes.

- Various performance classes
- Various connection technologies
- Space-saving terminal adapters

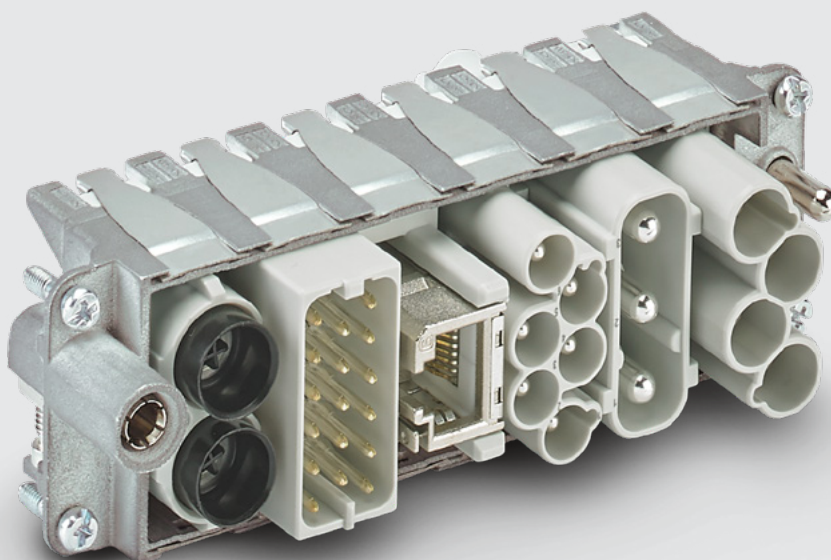
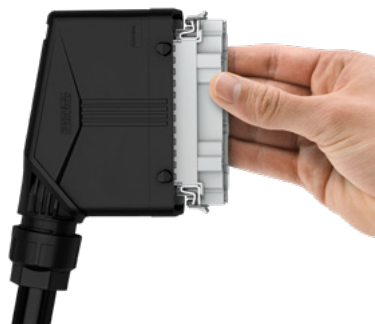
➤ More information starting on page 38

## HEAVYCON Click-in

Contact inserts with Click-in latching enable the consistent tool-free installation of heavy-duty connectors. You do not need a screwdriver for conductor connection or mounting in the housing.

➤ More information starting on page 46

CLICK!





## HEAVYCON modular




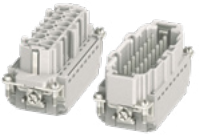
With HEAVYCON modular, you can create your own individual connector.

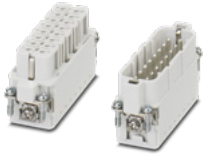

- Contact insert modules for power, signals, data, and pneumatics
- Highly compact interface achieved by combining various transmission media in the same housing


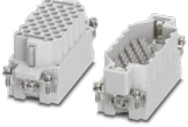



➤ More information starting on page 48

# System cross-reference list: HEAVYCON housings and contact inserts

Compact connectors										
										
<b>Housing size</b>	<b>D07</b>									
<b>Contact insert series</b>	<b>A</b>		<b>D</b>		<b>Q</b>					
Number of positions	3	4	7	8	2	3	4	5	7	12
Connection methods										
PT = Push-in	PT							PT		
UT = Screw	UT									
CT = Crimp			CT		CT					
Q = IDC/QUICKON	Q									
A = Axial screw					A					

Industry standard																
																
<b>Housing size</b>	<b>B16</b>	<b>B24</b>	<b>B32</b>	<b>B48</b>	<b>B06</b>	<b>B10</b>	<b>B16</b>	<b>B24</b>	<b>B32</b>	<b>B48</b>	<b>B06</b>	<b>B10</b>	<b>B16</b>	<b>B24</b>	<b>B32</b>	<b>B48</b>
<b>Contact insert series</b>	<b>D</b>				<b>DD</b>						<b>B</b>					
Number of positions	40	64	2 x 40	2 x 64	24	42	72	108	2 x 72	2 x 108	6	10	16	24	2 x 16	2 x 24
Connection methods																
PT = Push-in																PT
UT = Screw																UT
CT = Crimp	CT				CT						CT					
Q = IDC/QUICKON																Q
A = Axial screw																
P = Pneumatic																

							
D15	D25	D50	D15	D25	D50	COM	
A			D			COM	
10	16	2 x 16	15	25	2 x 25	4	8
PT						PT	
UT							
CT			CT			CT	
						A	

																
B06	B10	B16	B24	B32	B48	B16	B24	B32	B48	B10	B16	B24	B16	B32	B6 - B48	M1
BB						BBB				HV			HS		M	
10	18	32	46	2 x 32	2 x 46	40	64	2 x 40	2 x 64	3 + 2	6 + 2	10 + 2	6	2 x 6	Variable	
PT										PT			PT		PT	
													UT			
CT						CT				CT					CT	
															A	
															P	

## Fixed-position contact inserts

### Always the right connection technology

Our contact inserts offer you consistently compatible interfaces, which can be flexibly combined for all conventional sizes. The fixed-position versions are available in a variety of performance classes and with a variety of connection technologies – even for mixed assembly. Fast-connection technologies, such as push-in or QUICKON insulation displacement connection, enable easy and tool-free cable connection.

#### Push-in Technology

Designed by Phoenix Contact



#### Your advantages

- ✓ Various connection technologies: push-in, IDC, crimp, and screw connection
- ✓ Easy wiring of the protective conductor
- ✓ Plug-in and mounting compatible with heavy-duty connectors from other manufacturers

# Easily connect, code, and mount contact inserts



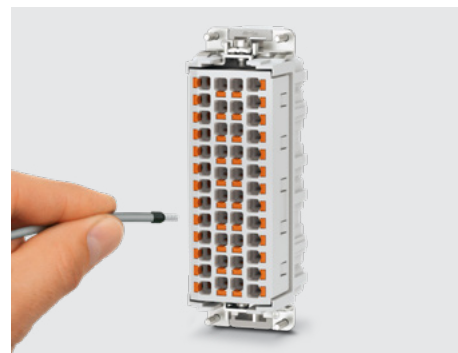
## Click-in latching

Click-in contact inserts enable tool-free conductor connection and mounting in the connector housing.



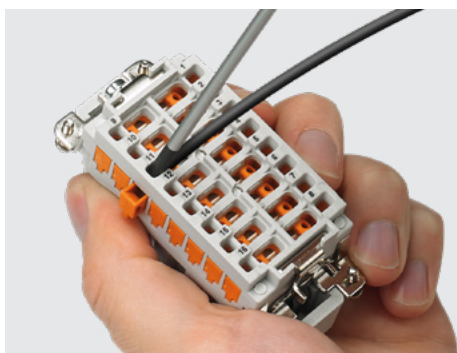
## User-friendly push-in connection

Contact inserts with push-in connections can be connected easily and tool-free by means of direct insertion.



## High-position applications

With high-position push-in contact inserts, you can easily connect up to 46 signal contacts in one B24 connector.



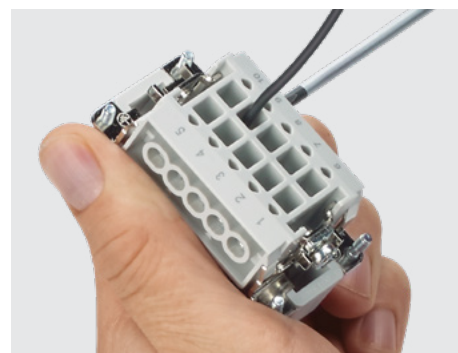
## Fast QUICKON connection

Reduce wiring time by up to 60%. With the QUICKON connection, you can connect flexible and rigid conductors without any pretreatment.



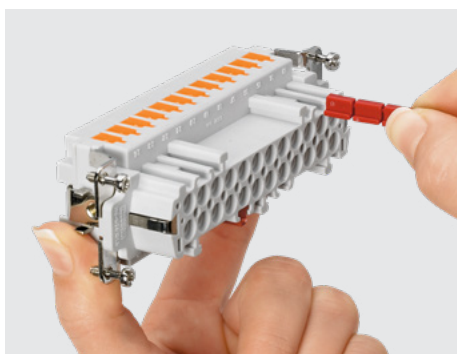
## Compact crimp connection

Contact inserts with crimp connections need very little space at the terminal point.



## Universal screw connection

Satisfy high demands with the maintenance-free screw connection. The conductor connection is gas-tight and permanent.



## Cost-effective coding

The coding with plastic profiles will prevent you from mismatching identical, adjacent connectors.



## Reliable grounding




PE adapters with push-in connection enable easy, tool-free wiring of the protective conductor by means of direct insertion.




## Two conductors on one potential



TWIN modules with double conductor connections provide a space-saving bridging function for potential distribution in the connector.

# Contact inserts for D housings



	Connection / contact diameter	Connection cross-section	Rated current / voltage	Version	Size			
					D7			
<b>A series</b>					<b>Number of positions</b>			
					<b>3</b>	<b>4</b>		
	Push-in / 1.6 mm	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 26 AWG ... 16 AWG	10 A / 230 / 400 V	Socket	1585265	1585281		
				Pin	1585252	1585278		
	Screw / 1.6 mm	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		Socket	1585223	1585249		
				Pin	1585210	1585236		
<b>D series</b>					<b>Number of positions</b>			
					<b>7</b>	<b>8</b>		
	Crimp / 1.6 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	10 A / 250 V	Socket	1584347 <sup>1)</sup>			
				Pin	1584334 <sup>1)</sup>			
			10 A / 42 V	Socket	1425006	1584363		
				Pin	1425005	1584350		
<b>Q series</b>					<b>Number of positions</b>			
					<b>2</b>	<b>3</b>	<b>4</b>	
	Axial screw / 4 mm	1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>	40 A / 400 V	Socket	1496732			
				Pin	1496723			
			40 A / 830 V	Socket	1496730			
				Pin	1496725			
	Crimp / 4 mm	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG	40 A / 400 V	Socket	1419895	1419897		
				Pin	1419893	1419896		
			40 A / 830 V	Socket			1419899 <sup>1)</sup>	
				Pin			1419898 <sup>1)</sup>	
						<b>Number of positions</b>		
						<b>5</b>	<b>7</b>	<b>12</b>
		Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG	20 A / 230 / 400 V	Socket	1406537		
					Pin	1406538		
Push-in / 2.5 mm		16 A / 230 V		Socket	1013948			
				Pin	1013947			
Crimp / 1.6 mm		0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG		12 A / 400 V	Socket		1418623	1418625
					Pin		1418624	1418626

	Description	Rated current / voltage	Version	Size	
				D7	
<b>Q series</b>				<b>Number of positions</b>	
				<b>RJ45</b>	
	Gender changer	1 A / 50 V	Socket	1422590	
	With RJ45 contact insert			1077117	
	Adapter for patch cables		Pin	1077120	
	Adapter for RJ45 connectors			1077119	

## Contact inserts for D housings

	Connection / contact diameter	Connection cross-section	Rated current / voltage	Version	Size		
					D15	D25	D50
<b>A series</b>					<b>Number of positions</b>		
					<b>10</b>	<b>16</b>	<b>16</b>
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG	16 A / 250 V	Socket	1585427	1585443	1585469 <sup>2)</sup>
				Pin	1585414	1585430	1585456 <sup>2)</sup>
	Push-in / 2.5 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG		Socket	1585362	1585388	1585401 <sup>2)</sup>
				Pin	1585359	1585375	1585391 <sup>2)</sup>
	Screw / 2.5 mm	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		Socket	1585304	1585320	1585346 <sup>2)</sup>
				Pin	1585294	1585317	1585333 <sup>2)</sup>
<b>D series</b>					<b>Number of positions</b>		
					<b>15</b>	<b>25</b>	
	Crimp / 1.6 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	10 A / 250 V	Socket	1584389	1584402	
							1411481 <sup>3)</sup>
				Pin	1584376	1584392 <sup>3)</sup>	
							1411478

## Contact inserts for COM housings




	Connection / contact diameter	Connection cross-section		Rated current / voltage		Version	Size	
		Power	Signal	Power	Signal		COM	
<b>Compact series</b>							<b>Number of positions</b>	
							<b>6</b>	<b>6</b>
	Axial screw / 4 mm	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 14 AWG ... 10 AWG	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 22 AWG ... 16 AWG	40 A 400 V / 690 V	10 A 250 V	Socket	1079557	
						Pin	1079558	
	Crimp / 4 mm	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG			Socket	1079556	1459657 <sup>1)</sup>
						Pin	1079555	1463388 <sup>1)</sup>
							<b>Number of positions</b>	
							<b>8</b>	<b>17</b>
	Push-in / 2.5 mm	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		16 A 500 V		Socket	1079554	
						Pin	1079553	
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG				Socket	1079547	
						Pin	1079548	
	Crimp / 1.6 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG				Socket		1408478 <sup>1)</sup>
						Pin		1408465 <sup>1)</sup>

<sup>1)</sup> Only suitable for plastic housings.

<sup>2)</sup> Contact insert with adapted contact numbering. Two contact inserts are required. Please additionally order the D25 contact insert.

<sup>3)</sup> With special printing (row C, pos. 1 is printed with the letter Z).

# Fixed-position contact inserts for B housings





	Connection / contact diameter	Connection cross-section	Rated current / voltage	Version	Size					
					B06	B10	B16	B24	B32	B48
<b>B series</b>					<b>Number of positions</b>					
					<b>6</b>	<b>10</b>	<b>16</b>	<b>24</b>	<b>16</b>	<b>24</b>
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG	16 A / 500 V	Socket	1648160	1648225	1648283	1648348	1584923 <sup>1)</sup>	1584981 <sup>1)</sup>
				Pin	1648157	1648212	1648270	1648335	1584910 <sup>1)</sup>	1584978 <sup>1)</sup>
	Push-in / 2.5 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG		Socket	1407727	1407729	1407731	1407735	1407733 <sup>1)</sup>	1407737 <sup>1)</sup>
				Pin	1407728	1407730	1407732	1407736	1407734 <sup>1)</sup>	1407738 <sup>1)</sup>
	QUICKON / 2.5 mm	0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 24 AWG ... 16 AWG		Socket	1423016 <sup>2)</sup>	1423018 <sup>2)</sup>	1423020 <sup>2)</sup>	1423022 <sup>2)</sup>	1423826 <sup>1)2)</sup>	1423828 <sup>1)2)</sup>
				Pin	1423015 <sup>2)</sup>	1423017 <sup>2)</sup>	1423019 <sup>2)</sup>	1423021 <sup>2)</sup>	1423825 <sup>1)2)</sup>	1423827 <sup>1)2)</sup>
	Screw / 2.5 mm	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 14 AWG	Socket	1605556	1605569	1605572	1605585	1605598 <sup>1)</sup>	1605608 <sup>1)</sup>	
			Pin	1605611	1605624	1605637	1605640	1605653 <sup>1)</sup>	1605666 <sup>1)</sup>	
		0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG	Socket	1648128	1648186	1648241	1648306	1584884 <sup>1)</sup>	1584949 <sup>1)</sup>	
			Pin	1648115	1648173	1648238	1648296	1584871 <sup>1)</sup>	1584936 <sup>1)</sup>	
	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG	16 A / 200 V	Socket	1541918 <sup>3)</sup>						
			Pin	1541916 <sup>3)</sup>						
<b>BB series</b>					<b>Number of positions</b>					
					<b>10</b>	<b>18</b>	<b>32</b>	<b>46</b>	<b>32</b>	<b>46</b>
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG	16 A / 500 V	Socket	1584703	1584729	1584745	1584758	1406543 <sup>1)</sup>	1406545 <sup>1)</sup>
				Pin	1584774	1584716	1584732	1584761	1406544 <sup>1)</sup>	1406546 <sup>1)</sup>
	Push-in / 2.5 mm	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		Socket	1014417	1014419	1014421	1014423		
				Pin	1014418	1014420	1014422	1014424		
<b>BBB series</b>					<b>Number of positions</b>					
							<b>40</b>	<b>64</b>		
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG	16 A / 500 V	Socket			1409930	1409914		
				Pin			1409921	1409901		

# Fixed-position contact inserts for B housings

1

2

Contact inserts

	Connection / contact diameter	Connection cross-section	Rated current / voltage	Version	Size					
					B06	B10	B16	B24	B32	B48
<b>D series</b>					<b>Number of positions</b>					
							40	64		
	Crimp / 1.6 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	10 A / 250 V	Socket			1584428	1584444		
				Pin			1584415	1584431		
<b>DD series</b>					<b>Number of positions</b>					
					24	42	72	108	72	108
	Crimp / 1.6 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	10 A / 250 V	Socket	1584046	1584062	1584091	1584130	1584101 <sup>1)</sup>	1584143 <sup>1)</sup>
				Pin	1584033	1584059	1584075	1584114	1584088 <sup>1)</sup>	1584127 <sup>1)</sup>
<b>HS series</b>					<b>Number of positions</b>					
							6		6	
	Push-in / 3.5 mm	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG	35 A / 400 / 690 V	Socket			1031080			
				Pin			1031082			
	Screw / 3.5 mm	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 20 AWG ... 10 AWG	41 A / 400 / 690 V	Socket			1406530		1406533 <sup>1)</sup>	
				Pin			1406531		1406534 <sup>1)</sup>	
<b>HV series</b>					<b>Number of positions</b>					
						5	8	12		
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG	16 A / 690 V	Socket		1405261	1405263	1405265		
				Pin		1405260	1405262	1405264		
	Push-in / 2.5 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG		Socket		1407743	1407744	1407745		
				Pin		1407739	1407740	1407741		

<sup>1)</sup> Contact insert with adapted contact numbering. Two contact inserts are required. Please additionally order the B16 or B24 contact insert according to your selection.

<sup>2)</sup> These items are a TWIN connection. Two conductors can be connected per position.

<sup>3)</sup> Contact inserts with short-circuit function

## Fixed-position contact inserts for B housings





	Connection / contact diameter	Connection cross-section		Rated current / voltage		Version	Size		
		Power	Signal	Power	Signal		B10	B16	B24
<b>K series</b>							<b>Number of positions</b>		
							<b>32</b>	<b>4</b>	
	Crimp / 2.5 mm	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	16 A 230 V / 400 V	10 A	Socket	<a href="#">1636321</a>		
						Pin	<a href="#">1636318</a>		
	Screw / 6 mm	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> 16 AWG ... 6 AWG		80 A 830 V		Socket		<a href="#">1679427</a>	
						Pin		<a href="#">1679414</a>	
							<b>Number of positions</b>		
								<b>6</b>	
	Screw	1.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> 16 AWG ... 6 AWG	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG	80 A	16 A	Socket		<a href="#">1686876</a>	
						Pin		<a href="#">1686889</a>	
	Screw / 6 mm	6 mm <sup>2</sup> ... 16 mm <sup>2</sup> 10 AWG ... 6 AWG		80 A 1000 V		Socket		<a href="#">1580537</a>	
						Pin		<a href="#">1580538</a>	
							<b>Number of positions</b>		
								<b>14</b>	
	Crimp / 4 mm	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	40 A 690 V	10 A 250 V	Socket		<a href="#">1636347</a>	
						Pin		<a href="#">1636334</a>	
							<b>Number of positions</b>		
								<b>18</b>	
	Axial screw / 4 mm	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> 12 AWG ... 8 AWG	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 24 AWG ... 14 AWG	40 A 230 V / 400 V	10 A	Socket		<a href="#">1636363</a>	
						Pin		<a href="#">1636350</a>	
							<b>Number of positions</b>		
								<b>42</b>	
	Crimp / 4 mm	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	40 A 690 V	10 A 160 V	Socket		<a href="#">1636389</a>	
						Pin		<a href="#">1636376</a>	
							<b>Number of positions</b>		
									<b>12</b>
	Axial screw	16 mm <sup>2</sup> ... 35 mm <sup>2</sup> 5 AWG ... 2 AWG	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 24 AWG ... 13 AWG	100 A	16 A	Socket			<a href="#">1636402</a>
						Pin			<a href="#">1636392</a>

# Terminal adapters for B housings

## Space-saving terminal adapters

Terminal adapters are the perfect blend of conventional terminal blocks and contact inserts. Install the terminal adapters in a control cabinet panel. You can attach a connector from the outside. The terminal adapters are available with screw and push-in connection.

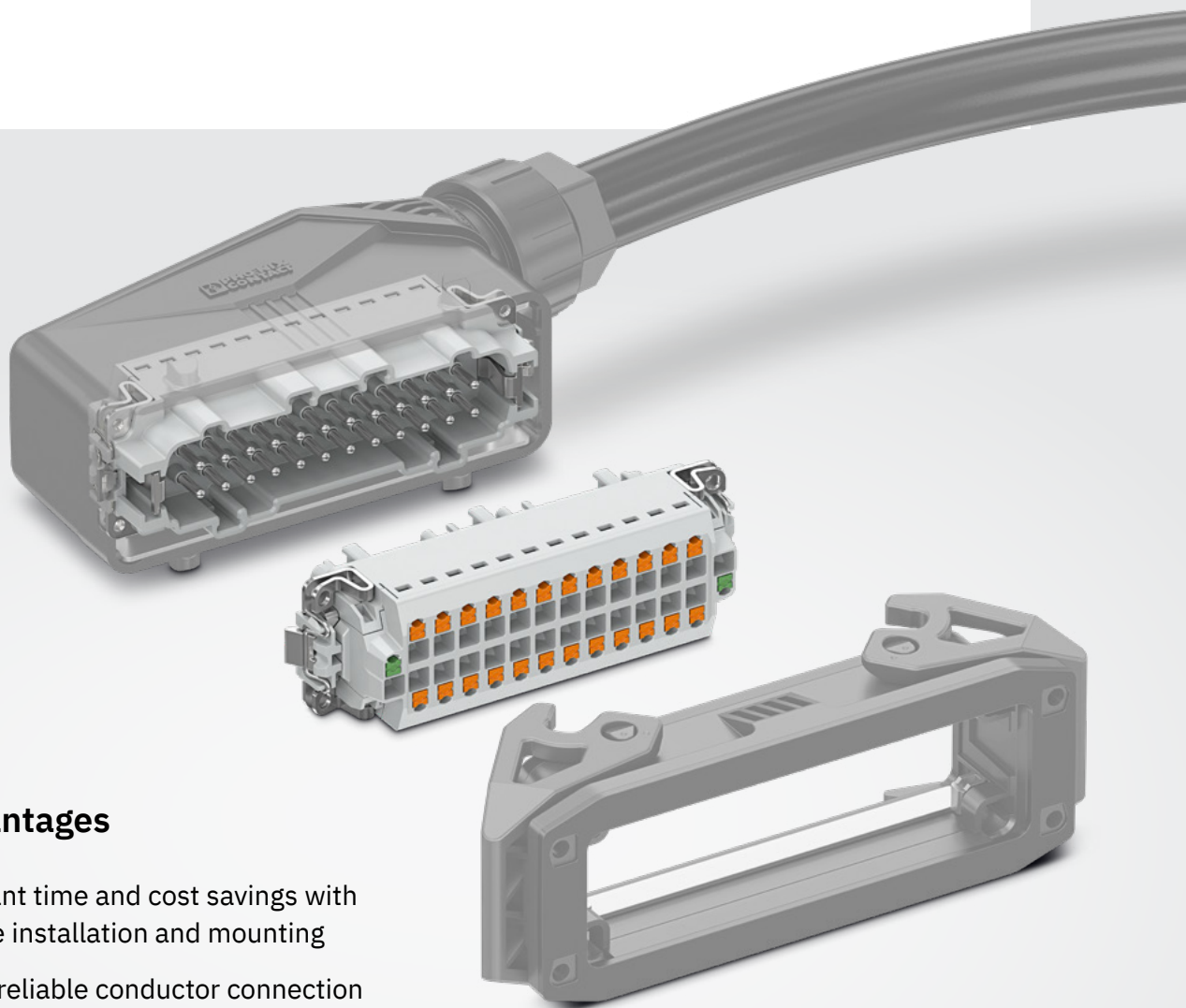


	Connection	Connection cross-section	Rated current / voltage	Version	Size				
					B06	B10	B16	B24	
<b>B-A series, left protective conductor connection for right control cabinet panel</b>					<b>Number of positions</b>				
					<b>6</b>	<b>10</b>	<b>16</b>	<b>24</b>	
	Push-in	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG	16 A / 500 V	Socket	1648351	1648393	1648432	1648474	
				Pin	1648364	1648403	1648445	1648487	
	Screw	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		Socket	1648018	1648030	1648042	1648054	
				Pin	1648024	1648036	1648048	1648060	
<b>B-A series, right protective conductor connection for left control cabinet panel</b>					<b>Number of positions</b>				
					<b>6</b>	<b>10</b>	<b>16</b>	<b>24</b>	
	Push-in	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG	16 A / 500 V	Socket	1648377	1648416	1648458	1648490	
				Pin	1648380	1648429	1648461	1648500	
	Screw	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		Socket	1648066	1648078	1648090	1648102	
				Pin	1648072	1648084	1648096	1648108	
<b>D-A series, left protective conductor connection for right control cabinet panel</b>					<b>Number of positions</b>				
							<b>40</b>	<b>64</b>	
	Push-in	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG	10 A / 250 V	Socket			1580147	1580189	
				Pin			1580150	1580192	
	Screw			0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG	Socket			1584253	
					Pin			1584240	
	Screw	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG		Socket				1584295	
				Pin				1584282	
<b>D-A series, right protective conductor connection for left control cabinet panel</b>					<b>Number of positions</b>				
							<b>40</b>	<b>64</b>	
	Push-in	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG	10 A / 250 V	Socket			1580163	1580202	
				Pin			1580176	1580215	
	Screw			0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG	Socket			1584279	
					Pin			1584266	
	Screw	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 22 AWG ... 12 AWG		Socket				1584321	
				Pin				1584318	

## Click-in contact inserts

### Tool-free installation and mounting

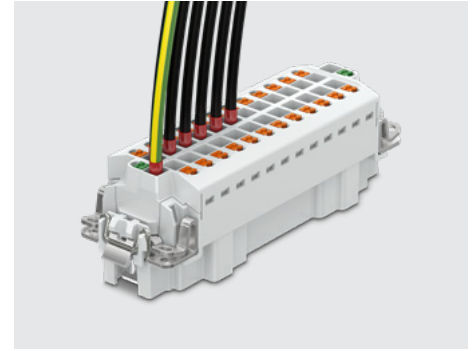
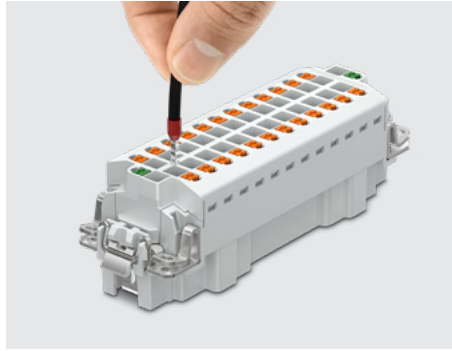
HEAVYCON Click-in contact inserts increase the efficiency of cabling work. Push-in Technology and the Click-in latching ensure extremely easy handling and reliable installation. No tools are required for conductor connection or mounting in the connector housing. This ensures significant time savings.



#### Your advantages

- ✔ Significant time and cost savings with tool-free installation and mounting
- ✔ Simple, reliable conductor connection with Push-in Technology, including the protective conductor
- ✔ Reliable use due to shock- and vibration-resistant connection

# Click-in contact inserts for B housings



## Time-saving mounting


With HEAVYCON CLICK-IN, you can mount contact inserts in your EVO and STANDARD connector housings easily, reliably, and tool-free. The audible and tangible latching confirms secure installation.

## User-friendly connection

HEAVYCON Click-in contact inserts are assembled using Push-in Technology. This provides convenient and tool-free conductor connection. Contact rigid and pretreated conductors easily and reliably by means of direct insertion.

## Reliable grounding

The PE connection with Push-in Technology enables easy, shock- and vibration-resistant wiring of the protective conductor. Installation is tool-free by means of direct insertion – even from the inside of the control cabinet.

	Connection / contact diameter	Connection cross-section	Rated current / voltage	Version	Size			
					B06	B10	B16	B24
<b>B series</b>					<b>Number of positions</b>			
					<b>6</b>	<b>10</b>	<b>16</b>	<b>24</b>
	Push-in / 2.5 mm	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG	16 A / 500 V	Socket	1350024	1350017	1350013	1350010
				Pin	1350025	1350020	1350015	1350011

## Modular contact inserts

### Everything in one housing

With HEAVYCON modular, you can create your own individual connector. By combining various transmission media in the same housing, you can easily create your highly compact interface. The broad product range comprises contact inserts for power, signal, and data transmission, as well as for pneumatic applications.



#### Your advantages

- ✓ Comprehensive range of modules for data, signals, power, and pneumatics
- ✓ Short installation time with innovative module carrier frame
- ✓ Modules, frames, and complete connectors are compatible with the market standard

## Your advantages in detail

1

2

Contact inserts



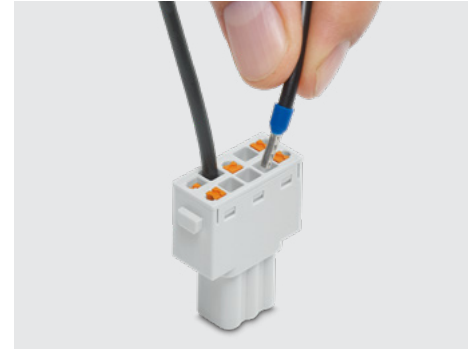
### For all applications

We offer modules for currents of up to 200 A, voltages of up to 5,000 V, signal transmission up to 25-pos., reliable data transfer, and inserts for pneumatic applications.



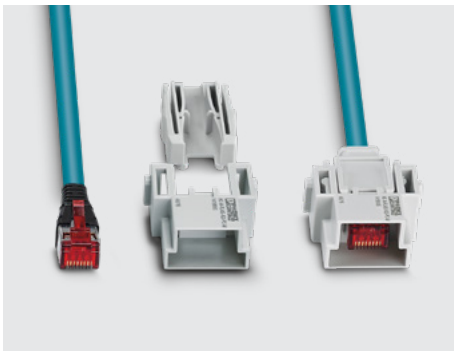
### Simply snap into place

Mount any module combination quickly and easily with the innovative snap-in frame. Snap the contact inserts into place – and you're done! Springs on the side hold the modules securely in position.



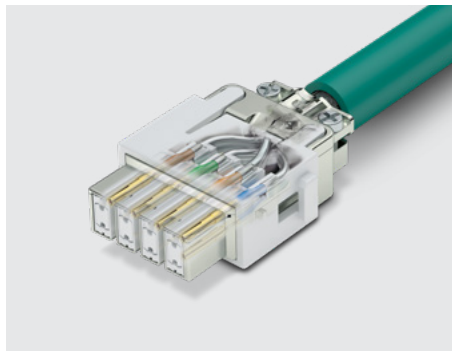
### Easy contacting

Tool-free direct insertion: contact inserts with push-in connection offer convenient and vibration-resistant conductor connection.



### Data transmission via RJ45

You can integrate RJ45 data cables easily into your application with the RJ45 modules. We also offer preassembled patch cables which are immediately ready for use.



### High-speed data transfer









































With our gigabit modules featuring 360° shielding and contacts shielded in pairs, you can transmit data quickly and reliably for high-speed applications.



### For high packing density

We offer push-in inserts with a compact clamping chamber for high-position applications and modules with double conductor connection.

# Modular contact inserts for M1 and B housings

Modules for power and high-voltage applications										
										
<b>Number of positions</b>	<b>1</b>						<b>2</b>			
Connection method / contact diameter	Axial screw connection / 9.5 mm		Crimp connection / 8 mm		Push-in connection / 8 mm		Axial screw connection / 8 mm		Axial screw connection / 6 mm	
Connection cross-section	6 mm <sup>2</sup> ... 70 mm <sup>2</sup> 10 AWG ... 0 AWG		10 mm <sup>2</sup> ... 35 mm <sup>2</sup> 8 AWG ... 2 AWG		2.5 mm <sup>2</sup> ... 16 mm <sup>2</sup> 14 AWG ... 6 AWG		10 mm <sup>2</sup> ... 35 mm <sup>2</sup> 8 AWG ... 2 AWG		4 mm <sup>2</sup> ... 25 mm <sup>2</sup> 16 AWG ... 4 AWG	
Rated current / voltage	200 A / 1000 V		100 A / 1000 V		76 A / 1000 V		100 A / 1000 V		70 A / 1000 V	
Module slots	2		1				2		1	
Socket / pin	1417379	1417381	1544119	1544120	1544117	1544116	1417390	1417392	1417296	1417297
										
<b>Number of positions</b>	<b>2</b>						<b>3</b>			
Connection method / contact diameter	Axial screw connection / 4 mm		Crimp connection / 4 mm		Push-in connection / 4 mm		Crimp connection / 2.5 mm		Crimp connection / 4 mm	
Connection cross-section	2.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> 12 AWG ... 10 AWG		1.5 mm <sup>2</sup> ... 10 mm <sup>2</sup> 16 AWG ... 8 AWG		2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 14 AWG ... 10 AWG		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG		1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 8 AWG	
Rated current / voltage	40 A / 1000 V						16 A / 2900 / 5000 V		40 A / 830 V	
Module slots	1						2		1	
Socket / pin	1417387	1417389	1414361	1414360	1424222	1424223	1417407	1417408	1414359	1414358
										
<b>Number of positions</b>	<b>3</b>		<b>4</b>				<b>5</b>		<b>5</b>	
Connection method / contact diameter	Push-in connection / 4 mm		Crimp connection / 4 mm		Push-in connection / 4 mm		Push-in connection / 2.5 mm			
Connection cross-section	2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 14 AWG ... 10 AWG		1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG		2.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 14 AWG ... 10 AWG		0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG		0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 24 AWG ... 16 AWG	
Rated current / voltage	40 A / 1000 V						16 A / 400 V		16 A / 230 / 400 V	
Module slots	1									
Socket / pin	1424218	1424219	1414363	1414362	1424220	1424221	1417373	1417372	1423962 <sup>1)</sup>	1423961 <sup>1)</sup>
										
<b>Number of positions</b>	<b>6</b>				<b>6</b>		<b>8</b>			
Connection method / contact diameter	Crimp connection / 2.5 mm		Push-in connection / 2.5 mm		Crimp connection / 2.5 mm		Crimp connection / 2.5 mm		Push-in connection / 2.5 mm	
Connection cross-section	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG		0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG		0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG		0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 20 AWG ... 14 AWG	
Rated current / voltage	16 A / 830 V		16 A / 500 V		16 A / 830 V		16 A / 500 V		16 A / 690 V	
Module slots	1									
Socket / pin	1414367	1414366	1424224	1424225	1414369 <sup>2)</sup>	1414368 <sup>2)</sup>	1414371	1414370	1424226	1424227

<sup>1)</sup> These items are a TWIN connection.

Two conductors can be connected per position.


<sup>2)</sup> Touch protection on both sides (pin and socket).


# Modular contact inserts for M1 and B housings





1


2

Contact inserts

Modules for power and high-voltage applications	
	
<b>Number of positions</b>	<b>20</b>
Connection method / contact diameter	Crimp connection / 2.5 mm
Connection cross-section	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG
Rated current / voltage	16 A / 690 V
Module slots	2
Socket / pin	<a href="#">1414373</a> <a href="#">1414372</a>

Modules for combined power and signal applications	
	
<b>Number of positions</b>	<b>7</b>
Connection method / contact diameter	Crimp connection / 4 mm
Connection cross-section	
Power contacts	1.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 16 AWG ... 10 AWG
Signal contacts	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG
Rated current / voltage	
Power contacts	40 A 500 V
Signal contacts	10 A 690 V
Module slots	1
Socket / pin	<a href="#">1414365</a> <a href="#">1414364</a>

Modules for signal application																				
																				
<b>Number of positions</b>	<b>12</b>				<b>17</b>				<b>25</b>				<b>42</b>							
Connection method / contact diameter	Crimp connection / 1.6 mm				Push-in connection / 1.6 mm				Crimp connection / 1.6 mm				Crimp connection / 1 mm				Crimp connection / 1.6 mm			
Connection cross-section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG				0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 26 AWG ... 16 AWG				0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG				0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> 28 AWG ... 20 AWG				0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG			
Rated current / voltage	10 A / 250 V				10 A / 400 V				10 A / 160 V				4 A / 60 V				10 A / 150 V			
Module slots	1										2									
Socket / pin	<a href="#">1414355</a>	<a href="#">1414354</a>	<a href="#">1424228</a>	<a href="#">1424246</a>	<a href="#">1414357</a>	<a href="#">1414356</a>	<a href="#">1414375</a>	<a href="#">1414374</a>	<a href="#">1450937</a>	<a href="#">1450698</a>										

Modules for measuring and testing tasks	
	
<b>Number of positions</b>	<b>6</b>
Connection method / contact diameter	Push-in connection / 4 mm
Connection cross-section	1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 21 AWG ... 12 AWG
Rated current / voltage	20 A / 100 V
Module slots	2
Socket / pin	<a href="#">1079590</a> <a href="#">1079591</a>



# Modular contact inserts for M1 and B housings











## Contact insert modules with function

Decentralized structures save space in the control cabinet and reduce cabling. The innovative HEAVYCON MWF contact insert modules make it possible to shift the functionality from the control cabinet to the field. The multifunctional disconnect zone and the double function slot are the central features of the five-position contact inserts. Quick and individual

potential distribution is made possible by plug-in bridges. The disconnect zone supports the flexible use of fuse plugs, component connectors, and isolating plugs. For example, power forwarding and string protection can be implemented easily.



Modules with function	
	 
<b>Number of positions</b>	<b>5</b>
Connection method / contact diameter	Push-in connection / 2.5 mm <sup>2</sup>
Connection cross-section	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 21 AWG ... 14 AWG
Rated current / voltage	16 A / 400 V
Features	With disconnect zone for fuse plugs, component connectors, and isolating plugs
Module slots	2
Socket / pin	<span style="margin-right: 100px;">1118096</span> <span>1118092</span>























Modules for data and signal applications										
										
<b>Number of positions</b>	<b>8</b>									
Series	COAX					MBIT				
Connection method / contact diameter	Solder and crimp connection / 4.8 mm					Crimp connection / 1.6 mm				
Connection cross-section	0.2 mm <sup>2</sup> ... 0.8 mm <sup>2</sup> 24 AWG ... 18 AWG					0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> 26 AWG ... 16 AWG				
Rated current / voltage	1.5 A / 48 V					10 A / 48 V				
Transmission properties	CAT5e									
Number of cable outlets	4			1				2		
Shielding	Unshielded					Shielded				
Features						Shielded transmission to the module frame			Shielded transmission to the module frame	
Module slots	1									
Socket / pin	1417370	1417371	1353625	1353620	1353613	1353611	1353627	1353626	1353617	1353614

# Modular contact inserts for M1 and B housings



1









2





Contact inserts

Modules for data applications											
											
<b>Number of positions</b>	9						8				
Series	DSUB-C				DSUB-U		GBIT				
Connection method / contact diameter	Crimp connection / 1 mm				Screw connection / 1 mm		Crimp connection / 1 mm				
Connection cross-section	0.09 mm <sup>2</sup> ... 0.82 mm <sup>2</sup> 28 AWG ... 18 AWG			0.08 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> 28 AWG ... 20 AWG							
Rated current / voltage	5 A / 48 V			1 A / 48 V			5 A / 48 V				
Transmission properties							CAT6 <sub>A</sub>				
Number of cable outlets	1										
Shielding	Unshielded						Shielded				
Features							Shielded transmission to the module frame				
Module slots	1										
Socket / pin	1079793	1079796	1417308	1417309	1417307	1423723	1353610	1353603	1417303	1417302	
											
<b>Number of positions</b>	8										
Series	RJ45										
Connection cross-section									24 AWG ... 27 AWG		
Rated current / voltage	1 A / 48 V										
Transmission properties	CAT5e		CAT6		CAT6 <sub>A</sub>						
Number of cable outlets	1										
Shielding	Shielded		Unshielded								
Features	Adapter for RJ45 connectors		Adapter for patch cables				Gender changer		With RJ45 contact insert		
Module slots	1										
Socket / pin	1419888		1419885		1435214		1419886		1419887		
											
<b>Number of positions</b>	9										
Series	USB										
Rated current / voltage	5 A / 20 V										
Transmission properties	USB 3.2 Gen. 1										
Number of cable outlets	1										
Shielding	Shielded										
Features	Adapter for patch cables				Gender changer						
Module slots	1										
Socket / pin	1353664				1353677						



# Modular contact inserts for M1 and B housings

EMC modules for data and signal applications		
		
<b>Number of positions</b>	<b>2</b>	
Series	EMC	
Connection method / contact diameter	Crimp connection / 1.6 mm	
Connection cross-section	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>	
Rated current / voltage	10 A / 48 V	
Shielding	Unshielded	
Features	For using two EMC connectors (socket), number of positions: 1, 4, 8	For using two EMC connectors (pin), number of positions: 1, 4, 8
Module slots	2	2
Socket / pin	<a href="#">1417376</a>	<a href="#">1417374</a>


EMC modules for data and signal applications								
								
<b>Number of positions</b>	<b>1</b>			<b>4</b>		<b>8</b>		
Series	EMC							
Connection method / contact diameter	Crimp connection / 2.5 mm		Crimp connection / 1.6 mm			Crimp connection / 1 mm		
Connection cross-section	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> 20 AWG ... 12 AWG		0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> 26 AWG ... 14 AWG			0.09 mm <sup>2</sup> ... 0.52 mm <sup>2</sup> 28 AWG ... 20 AWG		
Rated current / voltage	16 A / 48 V		10 A / 48 V			5 A / 48 V		
Transmission properties					CAT5e			
Number of cable outlets	1							
Shielding	Shielded							
Socket / pin	<a href="#">1066959</a>	<a href="#">1066960</a>	<a href="#">1066961</a>	<a href="#">1066962</a>	<a href="#">1636091</a>	<a href="#">1636088</a>	<a href="#">1066080</a>	<a href="#">1066082</a>

Modules for PE transmission				
				
<b>Number of positions</b>	<b>1</b>			
Connection method / contact diameter	Screw connection / 4 mm		Axial screw connection / 9.5 mm	
Connection cross-section	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> 20 AWG ... 10 AWG		25 mm <sup>2</sup> ... 70 mm <sup>2</sup> 10 AWG ... 0 AWG	
Module slots	For EVO M1 housings		2	
Socket / pin	<a href="#">1424438</a>	<a href="#">1424439</a>	<a href="#">1417380</a>	<a href="#">1417382</a>





# Modular contact inserts for M1 and B housings

Modules for pneumatic applications				
				
<b>Number of positions</b>	<b>2</b>		<b>3</b>	
Contact diameter	8 mm		5.2 mm	
Inside diameter of pressure hose connection	6 mm		1.6 mm / 3 mm / 4 mm	
Module slots	1		1	
Socket / pin	<a href="#">1417434</a>	<a href="#">1417434</a>	<a href="#">1417433</a>	<a href="#">1417433</a>

Pneumatic contact				
				
<b>Contact diameter</b>	<b>8 mm</b>	<b>5.2 mm</b>		
Inside diameter of pressure hose connection	6 mm	1.6 mm	3 mm	4 mm
Pneumatic socket	<a href="#">1676763</a>	<a href="#">1663514</a>	<a href="#">1663527</a>	<a href="#">1663530</a>
Pneumatic socket with valve	<a href="#">1676776</a>	<a href="#">1663543</a>		
Pneumatic connector	<a href="#">1676750</a>	<a href="#">1663488</a>	<a href="#">1663491</a>	<a href="#">1663501</a>

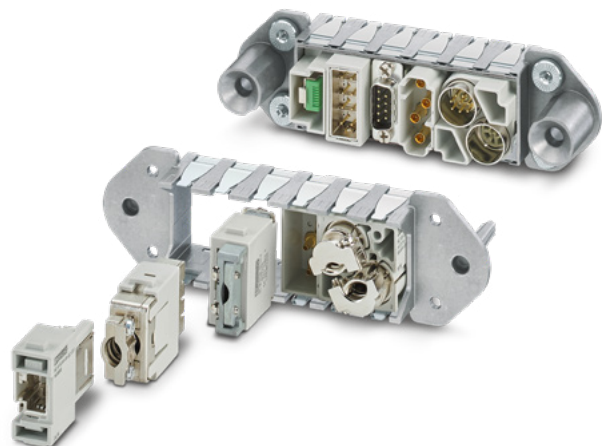
Dummy module	
	
<b>Module slots</b>	<b>1</b>
Socket / pin	<a href="#">1414353</a>

## Frames for modular contact inserts

	Description	Size			
		B06	B10	B16	B24
<b>For sleeve side (A, B, C, ...)</b>		<b>Module slots</b>			
		<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
	Module carrier frame	1182087	1182089	1182093	1182095
<b>For panel-mount side (a, b, c, ...)</b>		<b>Module slots</b>			
		<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
	Module carrier frame	1182085	1182088	1182090	1182094
<b>For sleeve side (A, B, C, ...)</b>		<b>Module slots</b>			
		<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
	Docking frame	1051190	1051204	1051221	1051222
<b>For panel-mount side (a, b, c, ...)</b>		<b>Module slots</b>			
		<b>2</b>	<b>3</b>	<b>4</b>	<b>6</b>
	Docking frame	1051224	1051225	1051226	1051227

### Blind plugging: Docking frames for modular connections

HEAVYCON docking frames allow the time-saving installation and maintenance of slide-in systems. The floating sockets and the leading guide pin on the docking frame enable the reliable and blind contacting of connections in areas where the interfaces cannot be seen. The robust frame is assembled with modular contact inserts. You can create your customized interface by combining various transmission media in the same frame.



# Crimp contacts

1

2

Contact inserts

	Contact diameter	For cross-section / AWG	Silver			Gold	
<b>CK 1,6-ED, turned</b>			<b>Socket</b>	<b>Pin</b>		<b>Socket</b>	<b>Pin</b>
	1.6 mm	0.14 mm <sup>2</sup> ... 0.37 mm <sup>2</sup> / 26 AWG ... 22 AWG	1663394	1663336		1674969	1674901
		0.5 mm <sup>2</sup> / 20 AWG	1663404	1663349		1674480	1672453
		0.75 mm <sup>2</sup> / 18 AWG	1663417	1663352		1672440	1674914
		1 mm <sup>2</sup> / 18 AWG	1663420	1663365		1674943	1674888
		1.5 mm <sup>2</sup> / 16 AWG	1663433	1663378		1674930	1674875
		2.5 mm <sup>2</sup> / 14 AWG	1663446	1663381		1674985	1674927
<b>CK 2,5-ED, turned</b>			<b>Socket</b>	<b>Pin</b>	<b>Pin</b>	<b>Socket</b>	<b>Pin</b>
	2.5 mm	0.5 mm <sup>2</sup> / 20 AWG	1663640	1663572		1674859	1674804
		0.75 mm <sup>2</sup> / 18 AWG	1663653	1663585			
		1 mm <sup>2</sup> / 18 AWG	1663666	1663598	1663857	1674833	1674781
		1.5 mm <sup>2</sup> / 16 AWG	1663679	1663608	1663860	1674820	1674778
		2.5 mm <sup>2</sup> / 14 AWG	1663682	1663611	1663873	1674862	1674817
		4 mm <sup>2</sup> / 12 AWG	1663705	1663637		1674846	1674794
<b>CK 4,0-ED, turned</b>			<b>Socket</b>	<b>Pin</b>			
	4 mm	1.5 mm <sup>2</sup> / 16 AWG	1663271	1663239			
		2.5 mm <sup>2</sup> / 14 AWG	1663284	1663242			
		4 mm <sup>2</sup> / 12 AWG	1663297	1663255			
		6 mm <sup>2</sup> / 10 AWG	1663307	1663268			
		10 mm <sup>2</sup> / 8 AWG	1586183	1586198			
<b>CK 1,6-ER, punched, single</b>			<b>Socket</b>	<b>Pin</b>			
	1.6 mm	0.34 mm <sup>2</sup> ... 1 mm <sup>2</sup> / 22 AWG ... 17 AWG	1004362	1004360			
		1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 16 AWG ... 14 AWG	1004366	1004365			
<b>CK 1,6-BR, punched, taped product</b>			<b>Socket</b>	<b>Pin</b>			
	1.6 mm	0.34 mm <sup>2</sup> ... 1 mm <sup>2</sup> / 22 AWG ... 17 AWG	1004381	1004380			
		1.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 16 AWG ... 14 AWG	1004383	1004382			
<b>D-SUB</b>						<b>Socket</b>	<b>Pin</b>
	1 mm	0.08 mm <sup>2</sup> ... 0.12 mm <sup>2</sup> / 28 AWG ... 24 AWG				1418787	1418784
		0.2 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> / 24 AWG ... 20 AWG				1418788	1418786
<b>Coaxial contact, 75 Ω</b>						<b>Coax</b>	<b>Coax</b>
	4.8 mm	0.2 mm <sup>2</sup> / 24 AWG				1655616	1655629
<b>Coaxial contact, 50 Ω</b>						<b>Coax</b>	<b>Coax</b>
	4.8 mm	0.8 mm <sup>2</sup> / 18 AWG				1655577	1655580

## Our range of services for your individual cabling

### HEAVYCON online configurator

The HEAVYCON configurator provides you with ideal support when designing your tailor-made connector. With simple filter menus, 2D and 3D product images, as well as an intuitive user interface, you can configure your connectors without errors in just a few steps. You can export and transfer the item list or order your solution directly.

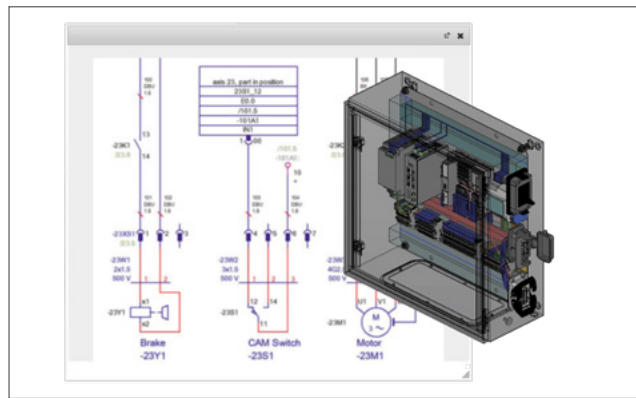
 **Web code:** #0003



### EPLAN data including 3D models

If you need the current EPLAN data in the format for Eplan Electric P8, you can access it directly on our website under Service & Support/Engineering Data for control cabinet building. You will receive the product data as an EDZ file for import into the item management system, product photos, 3D models, and macros.

 **Web code:** #2406



### CES cable entry system

Cables can be clearly and systematically routed into the control cabinet with the CES modular cable entry system. Flexibly combinable cable seals can be mounted and replaced quickly. The cable seals are available in various shapes and diameters. They are particularly robust and provide a reliable seal with IP54 degree of protection.

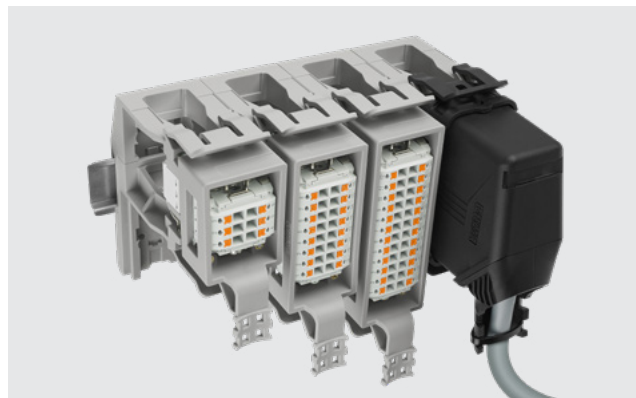
 **Web code:** #0570



### HC-CIF DIN rail mounting frames

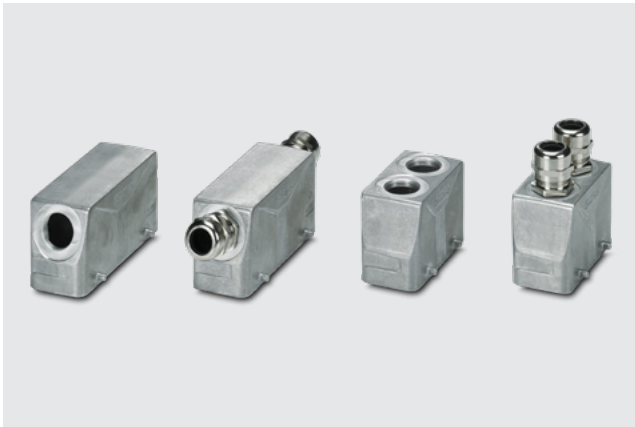
With the DIN rail mounting frames for heavy-duty connectors, it is easy to mount preassembled contact inserts directly on the DIN rail in the control cabinet. Choose between light plastic frames or robust metal frames. The mounting frames can hold fixed-position and modular contact inserts.

 **Web code:** #1581



## Modified cable outlets

We offer you connectors with cable outlets that are tailor-made to your requirements by modifying our standard housings.



## Customized sets

Should you always need the same connector configuration for series machines or service tasks, we will gladly put together the matching set for you under an item number.



## Application-specific solutions

With our customer-specific solutions, you will always find the ideal product for your application, even if the product is not in our range. We will develop sleeve housings, panel-mount bases, and contact inserts for heavy-duty connectors according to your specifications and requirements. For example, for use in data centers.

 **Web code: #3301**



## HEAVYCON in various colors

Design your own individual industrial connector. Our HEAVYCON STANDARD housings are also available with a resistant, colored powder coating. Choose the color that best suits your company or application from an extensive color palette and order conveniently starting from a batch size of 1.

 **Web code: #3021**



## Open communication with customers and partners worldwide

Phoenix Contact is a global market leader based in Germany. We are known for producing forward-thinking products and solutions for the comprehensive electrification, networking, and automation of all sectors of the economy and infrastructure. With a global network, we maintain close relationships with our customers, something we believe is essential for our common success.

You can find your local partner at  
[phoenixcontact.com](https://phoenixcontact.com)

