

### EPIC® HBE series \*

Inserts for medium power & control applications

294	EPIC® HBE 6	297	EPIC® HBE 24
295	EPIC® HBE 10	298	EPIC® HBE 32
296	EPIC® HBE 16	299	EPIC® HBE 48

\* NEW EPIC® HBE inserts with push-in termination

### EPIC® HA series

Compact screw-terminated inserts for medium power & control applications

301	EPIC® HA 3	302	EPIC® HA 32
301	EPIC® HA 4	303	EPIC® HA 48
301	EPIC® HA 10	303	EPIC® HA 64
302	EPIC® HA 16		

### EPIC® HQ series

Compact crimp-terminated inserts for power & control applications

305	EPIC® HQ 5	306	EPIC® HQ 12
-----	------------	-----	-------------

### EPIC® STA series

Inserts with solid spring-designed contacts for low voltage control applications

308	EPIC® STA 6	309	EPIC® STA 20
308	EPIC® STA 14	309	EPIC® STA 40

### EPIC® HEE series

Inserts with high crimp contact density for power & control applications

311	EPIC® HEE 10	312	EPIC® HEE 46
311	EPIC® HEE 18	313	EPIC® HEE 64
312	EPIC® HEE 32	313	EPIC® HEE 92

### EPIC® HBS series

Screw-terminated inserts for high-current power applications

315	EPIC® HBS 6	315	EPIC® HBS 12
-----	-------------	-----	--------------

### EPIC® Power HS series

Compact axial screw-terminated inserts for high-current power applications

316	EPIC® Power HS 4
-----	------------------

### EPIC® HBVE series

High-voltage screw-terminated inserts with two switch contacts for power applications

318	EPIC® HBVE 3	318	EPIC® HBVE 10
318	EPIC® HBVE 6		

### EPIC® HD series

Compact high-density crimp-terminated inserts for control applications

320	EPIC® HD 7	329	EPIC® HD 50
322	EPIC® HD 8	331	EPIC® HD 64
323	EPIC® HD 15	333	EPIC® HD 80
325	EPIC® HD 25	335	EPIC® HD 128
327	EPIC® HD 40		

### EPIC® HDD series

Ultra high-density crimp-terminated inserts for control applications

338	EPIC® HDD 24	339	EPIC® HDD 108
338	EPIC® HDD 42	340	EPIC® HDD 144
339	EPIC® HDD 72	340	EPIC® HDD 216

### EPIC® MH series

Modular system for power, signal & data

342	EPIC® MH 2	347	EPIC® MH 36
343	EPIC® MH 3	347	EPIC® MH 0
343	EPIC® MH 4	348	EPIC® MH BUS/MH Coax
344	EPIC® MH 6	349	EPIC® MH 6 multi frame
344	EPIC® MH 8	349	EPIC® MH 10 multi frame
345	EPIC® MH 12	350	EPIC® MH 16 multi frame
345	EPIC® MH 17	350	EPIC® MH 24 multi frame
346	EPIC® MH 20		

### EPIC® MC series

Modular inserts for custom configurations

353	EPIC® MC 2	366	EPIC® MC Cage Clamp
354	EPIC® MC HC2	367	EPIC® MC PROFIBUS® DP
355	EPIC® MC HHC2	367	EPIC® MC Universal Bus
356	EPIC® MC HHC1	368	EPIC® MC BUS
357	EPIC® MC 3 Coax	369	EPIC® MC Ethernet
358	EPIC® MC 3	370	EPIC® MC Pneumatic
359	EPIC® MC 3 High Voltage	371	EPIC® MC 2 module frame
360	EPIC® MC 4 HE	371	EPIC® MC 3 module frame
361	EPIC® MC 4+PE High Voltage	372	EPIC® MC 5 module frame
362	EPIC® MC 5	372	EPIC® MC 7 module frame
363	EPIC® MC 10	373	EPIC® MC 10 module frame
365	EPIC® MC 20	373	EPIC® MC 14 module frame
366	EPIC® MC 0		

### EPIC® Power K series

Screw-terminated inserts for combination power & control applications

376	EPIC® Power K 4/0	376	EPIC® Power K 4/8
376	EPIC® Power K 4/2		

## EPIC® HBE series

Inserts for medium power & control applications



EPIC® HBE series inserts provide reliable termination and performance in the vast majority of medium power and control applications. Methods of termination include screw, crimp, screwless cage clamp, and push-in.

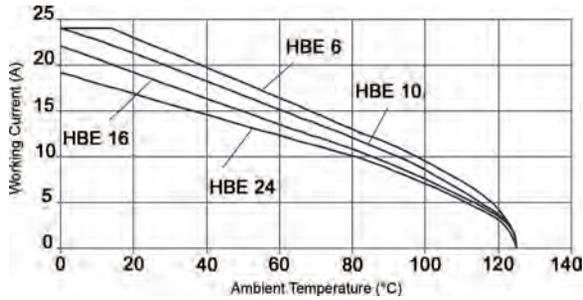
### Technical data

<b>Number of contacts:</b>	6, 10, 16, 24, 32, 48 (+PE)	<b>Crimp termination:</b>	
<b>Temperature range:</b> - short-term:	-40°C to +100°C up to +125°C	<b>Rated current:</b> - UL/CSA; IEC:	16A
<b>Rated voltage:</b> - UL/CSA: - IEC:	600V 500V	<b>Wire size:</b>	20 - 12 AWG (0.5 - 4 mm <sup>2</sup> )
<b>Pollution level:</b>	3	<b>Contact material:</b>	silver- or gold-plated copper alloy
<b>Dimensioning transient:</b>	6 kV	<b>Contact resistance:</b>	< 2 mΩ
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed - per Contact Thermal Test: Useful service in excess of 500 cycles is possible at rated voltage and current*	<b>Cage clamp termination:</b>	
<b>Screw termination:</b>		<b>Rated current:</b> - UL/CSA; IEC:	16A
<b>Rated current:</b> - UL/CSA; IEC:	16A	<b>Wire size:</b>	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )
<b>Wire size:</b>	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )	<b>Contact material:</b>	silver-plated copper alloy
<b>Contact material:</b>	silver-plated copper alloy	<b>Contact resistance:</b>	1.5 - 4 mΩ
<b>Contact resistance:</b>	< 2 mΩ	<b>Push-in termination:</b>	
		<b>Rated current:</b> - UL/CSA: - IEC:	13A 16A
		<b>Wire size:</b>	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )
		<b>Contact material:</b>	silver-plated copper alloy
		<b>Contact resistance:</b>	< 2 mΩ

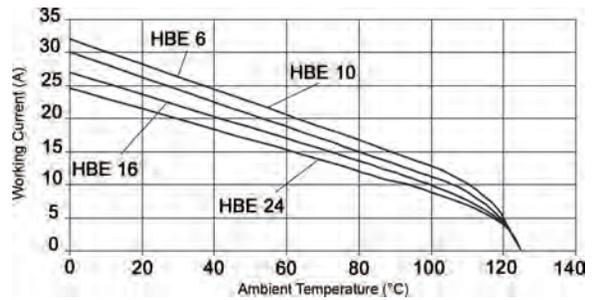
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® HBE derating curves

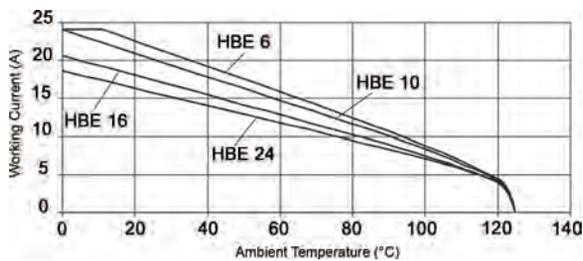
16 AWG (1.5 mm<sup>2</sup>) screw termination



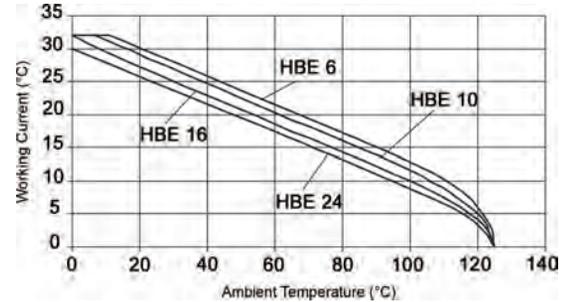
14 AWG (2.5 mm<sup>2</sup>) screw termination



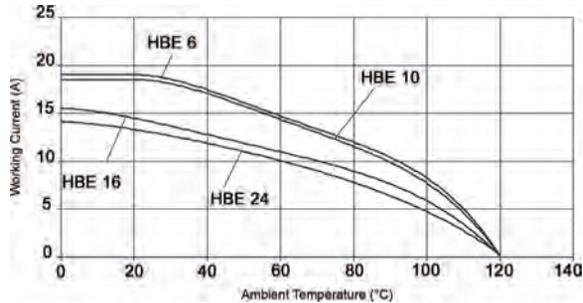
16 AWG (1.5 mm<sup>2</sup>) crimp termination



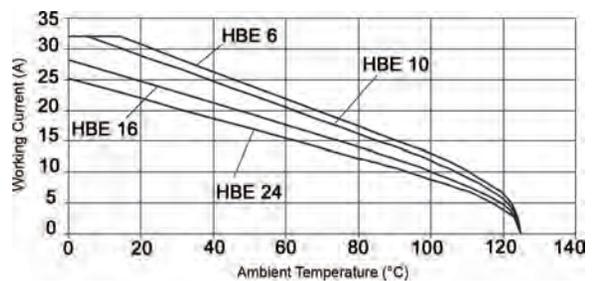
14 AWG (2.5 mm<sup>2</sup>) crimp termination



16 AWG (1.5 mm<sup>2</sup>) cage clamp



14 AWG (2.5 mm<sup>2</sup>) cage clamp



## 2.5 mm contacts

### Machined contacts for EPIC® HBE crimp termination inserts



#### Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200

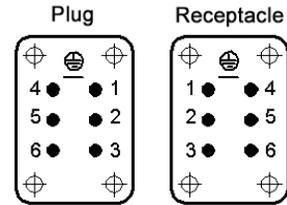
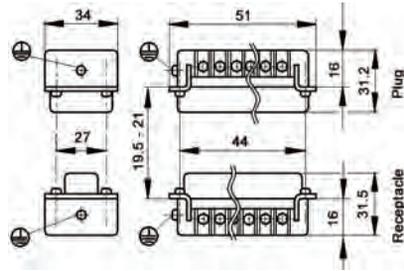
for removal of contacts, use a slotted screwdriver; no special tool is necessary

Contact size		Stripping length (mm)		# of marking tracks	Silver contacts		Gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75-1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

contacts sold in bags of 100

EPIC® HBE 6

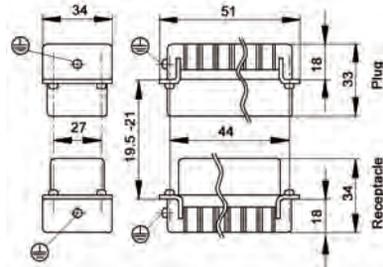
Screw termination: 600V, 16A



view from cable side

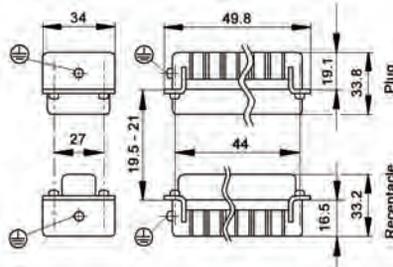
all dimensions are in mm

Crimp termination: 600V, 16A



crimp contacts sold separately, see page 293

Screwless cage clamp: 600V, 16A



Approvals

screw, crimp & push-in:



cage clamp:



Compatible housing



HB 6  
page 379

Push-in termination: 600V, 13A

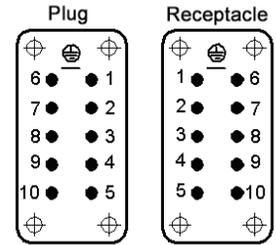
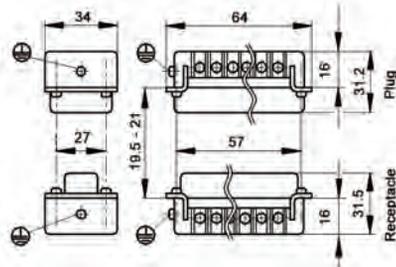


Termination	Wire protection	Plug	Receptacle
screw	yes	10190000	10191000
screw	no	10190100	10191100
crimp	—	10180000	10181000
cage clamp	yes	10400000	10401000
push-in	yes	44423200	44423201

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HBE 10

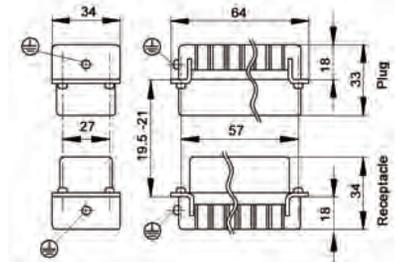
Screw termination: 600V, 16A



view from cable side

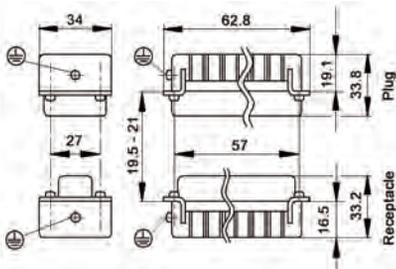
all dimensions are in mm

Crimp termination: 600V, 16A



crimp contacts sold separately, see page 293

Screwless cage clamp: 600V, 16A



Push-in termination: 600V, 13A



Termination	Wire protection	Plug	Receptacle
screw	yes	10192000	10193000
screw	no	10192100	10193100
crimp	—	10182000	10183000
cage clamp	yes	10400100	10401100
push-in	yes	44423202	44423203

### Approvals

screw, crimp & push-in:



cage clamp:



Compatible housing

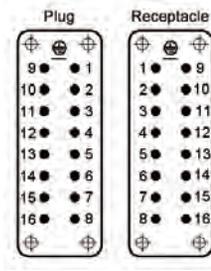
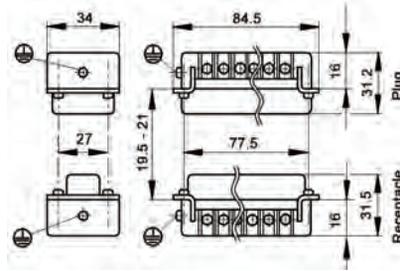


HB 10  
page 382

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HBE 16

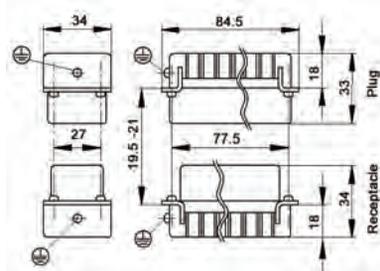
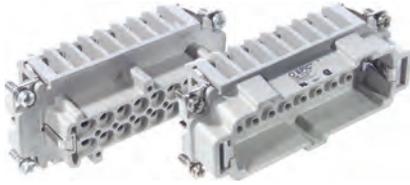
Screw termination: 600V, 16A



view from cable side

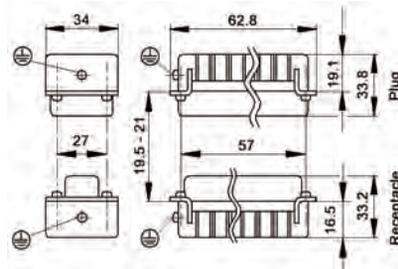
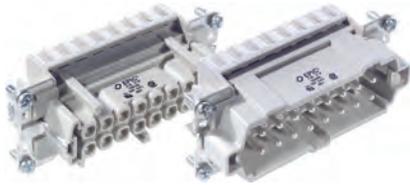
all dimensions are in mm

Crimp termination: 600V, 16A



crimp contacts sold separately, see page 293

Screwless cage clamp: 600V, 16A



Push-in termination: 600V, 13A



Approvals

screw, crimp & push-in:



cage clamp:



Compatible housing



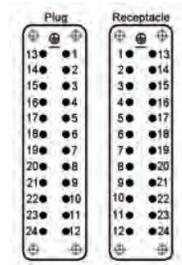
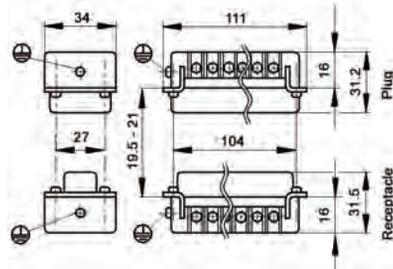
HB 16  
page 388

Termination	Wire protection	Plug	Receptacle
screw	yes	10194000	10195000
screw	no	10194100	10195100
crimp	—	10184000	10185000
cage clamp	yes	10400200	10401200
push-in	yes	44423204	44423205

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HBE 24

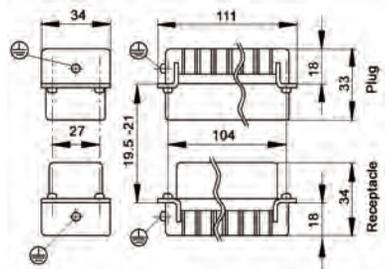
Screw termination: 600V, 16A



view from cable side

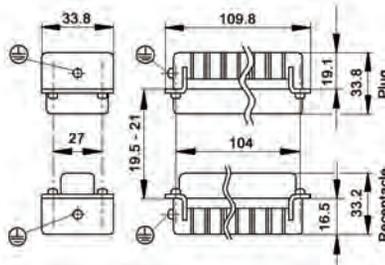
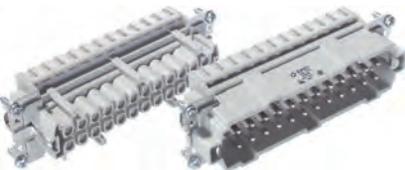
all dimensions are in mm

Crimp termination: 600V, 16A



crimp contacts sold separately, see page 293

Screwless cage clamp: 600V, 16A



Push-in termination: 600V, 13A



Termination	Wire protection	Plug	Receptacle
screw	yes	10196000	10197000
screw	no	10196100	10197100
crimp	—	10186000	10187000
cage clamp	yes	10400300	10401300
push-in	yes	44423206	44423207

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

### Approvals

screw, crimp & push-in:



cage clamp:



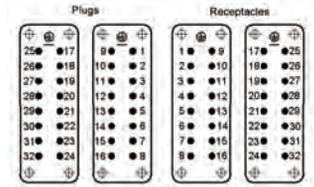
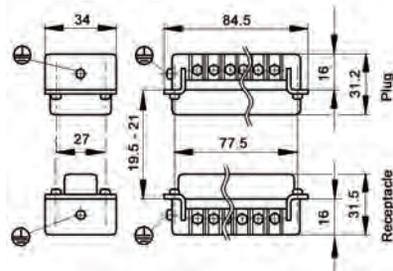
### Compatible housing



HB 24  
page 394

EPIC® HBE 32

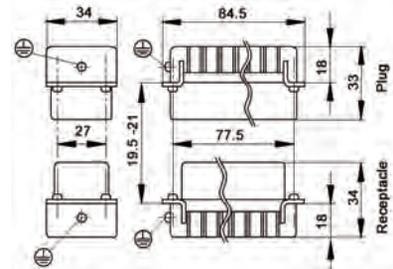
Screw termination: 600V, 16A



view from cable side

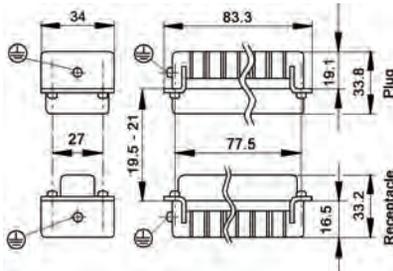
all dimensions are in mm

Crimp termination: 600V, 16A



crimp contacts sold separately, see page 293

Screwless cage clamp: 600V, 16A



Push-in termination: 600V, 13A



Approvals

screw, crimp & push-in:



cage clamp:



Compatible housing



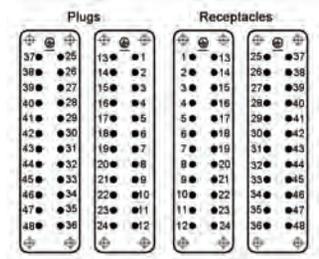
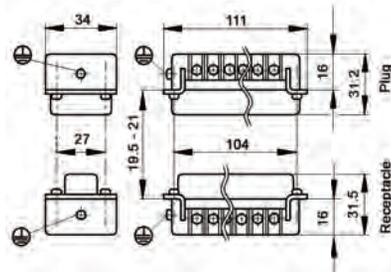
HB 32  
page 400

Termination	Wire protection	Contact numbering	Plug	Receptacle
screw	yes	# 1 - 16	10194000	10195000
		# 17 - 32	10202000	10203000
screw	no	# 1 - 16	10194100	10195100
		# 17 - 32	10202100	10203100
crimp	—	# 1 - 16	10184000	10185000
		# 17 - 32	10184200	10185200
cage clamp	yes	# 1 - 16	10400200	10401200
		# 17 - 32	10400400	10401400
push-in	yes	# 1 - 16	44423204	44423205
		# 17 - 32	44423208	44423209

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

### EPIC® HBE 48

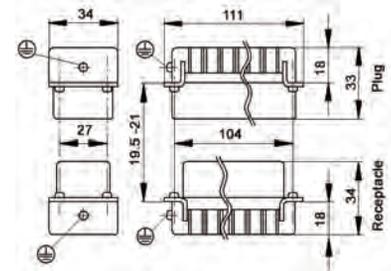
Screw termination: 600V, 16A



view from cable side

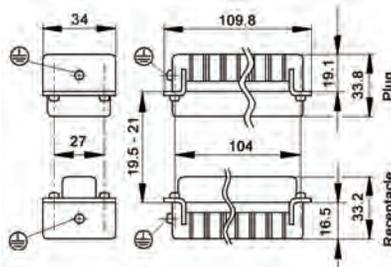
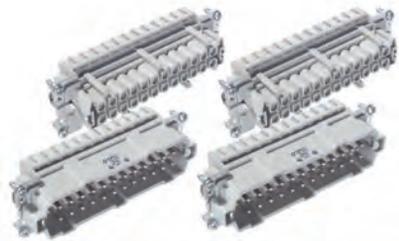
all dimensions are in mm

### Crimp termination: 600V, 16A



crimp contacts sold separately, see page 293

### Screwless cage clamp: 600V, 16A



### Push-in termination: 600V, 13A



Termination	Wire protection	Contact numbering	Plug	Receptacle
screw	yes	# 1 - 24	10196000	10197000
		#25 - 48	10204000	10205000
screw	no	# 1 - 24	10196100	10197100
		#25 - 48	10204100	10205100
crimp	-	# 1 - 24	10186000	10187000
		#25 - 48	10186200	10187200
cage clamp	yes	# 1 - 24	10400300	10401300
		#25 - 48	10400500	10401500
push-in	yes	# 1 - 24	44423206	44423207
		#25 - 48	44423210	44423211

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

### Approvals

screw, crimp & push-in:



cage clamp:



### Compatible housing



HB 48  
page 402

## EPIC® HA series

Compact screw-terminated inserts for medium power & control applications



Similar to the HBE series inserts but more compact, EPIC® HA series inserts are used whenever space is limited. EPIC® HA 3/4 inserts and housings provide the smallest possible footprint in a 10A power connector. HA 10-48 inserts are unique because of their shortened ground straps, which still allow for a wire cross-section up to 2.5 mm<sup>2</sup>. HA 3-48 screw-terminated inserts fit into EPIC® HA series housings. A modified EPIC® HB 48 housing can fit 64 contacts.

### Technical data

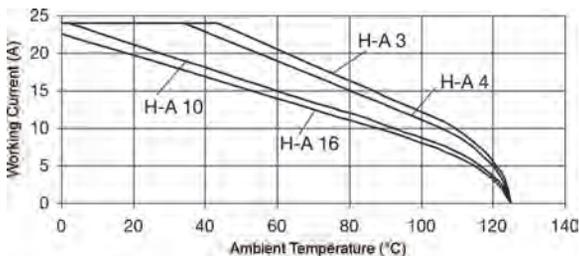
<b>Number of contacts:</b>	3, 4, 10, 16, 32, 48, 64 (+PE)	<b>Rated current:</b>	
<b>Temperature range:</b>	-40°C to +100°C	- UL:	
- short-term:	up to +125°C	- EPIC® HA 3/4:	10A
<b>Pollution level:</b>	3	- EPIC® HA 10 - 64:	14A
<b>Dimensioning transient:</b>	4 kV	- CSA:	
<b>Mating cycles:</b>	- per DIN EN 61984:2008	- EPIC® HA 3/4:	10A
	Service Life Test: Tested to 100 cycles and passed	- EPIC® HA 10 - 64:	16A
	- per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	- IEC:	
<b>Test voltage:</b>	4 kV	- EPIC® HA 3/4:	23A
<b>Rated voltage:</b>		- EPIC® HA 10 - 64:	16A
- UL:	600V	- SEV:	16A
- CSA:	600V	<b>Wire size:</b>	
- IEC:		- EPIC® HA 3/4:	
- EPIC® HA 3/4:	400V	- solid or stranded wire with ferrule:	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )**
- EPIC® HA 10 - 64:	250V	- EPIC® HA 10 - 64:	
- SEV:	250V	- solid or stranded wire with ferrule:	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )**
		- for stranded wire without ferrule:	18 - 14 AWG (0.75 - 2.5 mm <sup>2</sup> ) (requires insert with wire protection)
		<b>Contact material:</b>	silver-plated copper alloy
		<b>Contact resistance:</b>	1.5 - 4 mΩ

\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

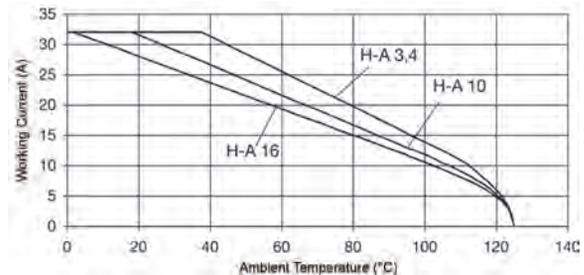
\*\* May be limited, depending on the ferrule crimp profile.

## EPIC® HA derating curves

16 AWG (1.5 mm<sup>2</sup>)

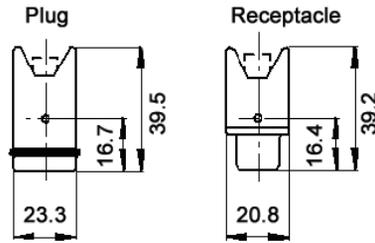


14 AWG (2.5 mm<sup>2</sup>)

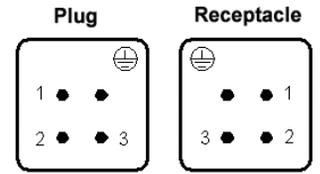


### EPIC® HA 3

screw termination: 600V, 10A



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
screw termination	10420000	10421000

**Complete the installation**



Coding pin:  
10451400

**Compatible housing**



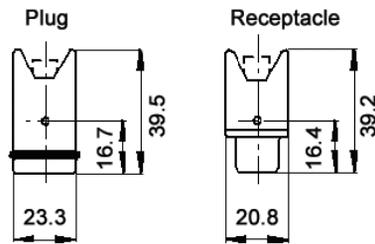
HA 3/4  
page 413

**Approvals**

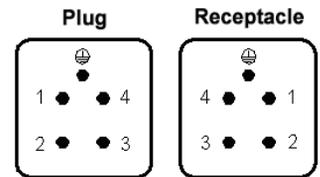


### EPIC® HA 4

screw termination: 600V, 10A



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
screw termination	10431000	10432000

**Complete the installation**



Coding pin:  
10451400

**Compatible housing**



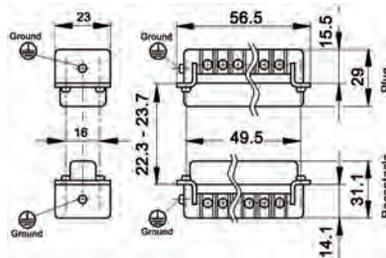
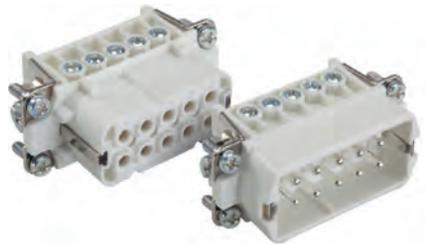
HA 3/4  
page 413

**Approvals**

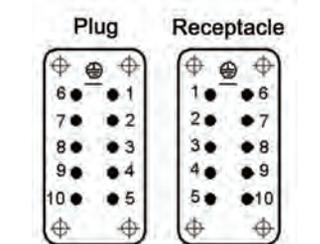


### EPIC® HA 10

screw termination: 600V, 14A



all dimensions are in mm



view from cable side

Termination	Wire protection	Plug	Receptacle
screw termination	yes	10440100	10441100
screw termination	no	10440000	10441000

**Compatible housing**



HA 10  
page 415

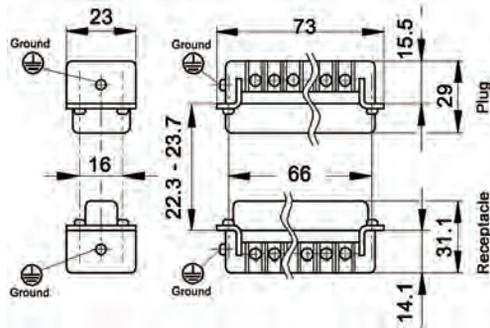
**Approvals**



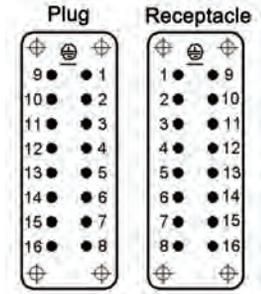
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HA 16

screw termination: 600V, 14A



all dimensions are in mm



view from cable side

Termination	Wire protection	Plug	Receptacle
screw termination	yes	10530000	10531000
screw termination	no	10532000	10533000

### Compatible housing



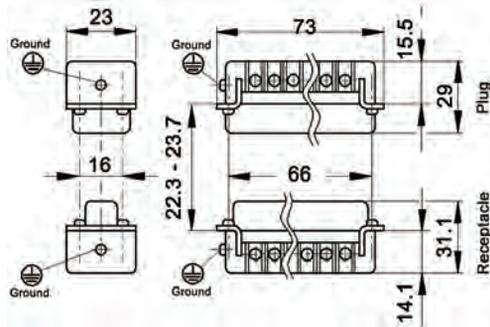
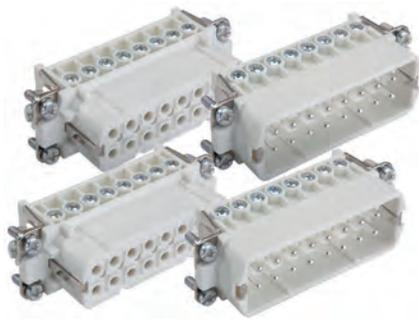
HA 16  
page 417

### Approvals

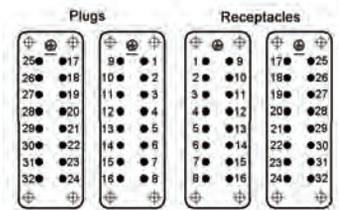


## EPIC® HA 32

screw termination: 600V, 14A



all dimensions are in mm



view from cable side

Termination	Wire protection	Contact numbering	Plug	Receptacle
screw termination	yes	# 1 - 16 # 17 - 32	10530000	10531000
screw termination	no	# 1 - 16 # 17 - 32	10532000	10533000
			10542000	10543000

### Compatible housing



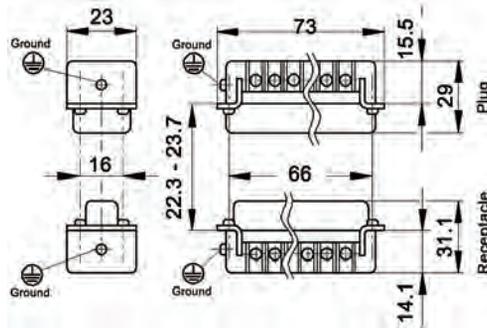
HA 32  
page 419

### Approvals

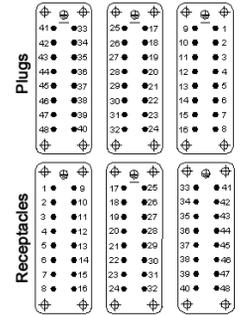


# EPIC® HA 48

screw termination: 600V, 14A



all dimensions are in mm



view from cable side

Termination	Wire protection	Contact numbering	Plug	Receptacle
screw termination	yes	# 1 - 16	10530000	10531000
		# 17 - 32	10540000	10541000
		#33 - 48	10540100	10541100
screw termination	no	# 1 - 16	10532000	10533000
		# 17 - 32	10542000	10543000
		#33 - 48	10542100	10543100

**Compatible housing**

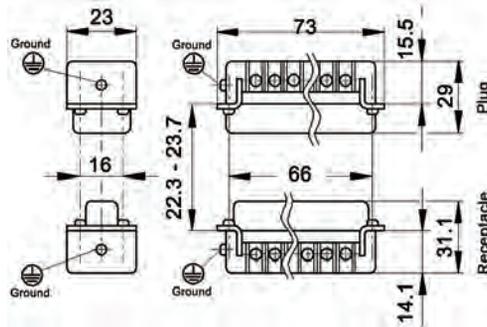
HA 48  
page 421

**Approvals**

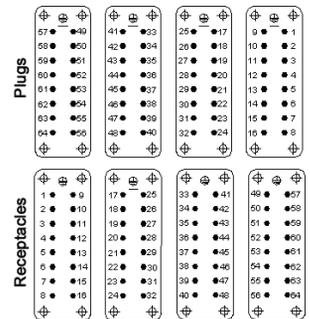


# EPIC® HA 64

screw termination: 600V, 14A



all dimensions are in mm



view from cable side

Termination	Wire protection	Contact numbering	Plug	Receptacle
screw termination	yes	# 1 - 16	10530000	10531000
		# 17 - 32	10540000	10541000
		#33 - 48	10540100	10541100
		#49 - 64	105300LE64	105310LE64

**Compatible housing**

HA 64  
page 422

**Approvals**



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HQ series

Compact crimp-terminated inserts for power & control applications



The EPIC® HQ insert series fills the gap between the smallest-configuration HA series and HD series inserts. The HQ 5 insert provides more contacts (5+PE and 12+PE) in the same size housing as the HA 3 and HA 4 inserts, with higher current and voltage capability than the HD 7 and HD 8 inserts. The HQ 12 insert provides 50% more contacts than the HD 8 insert in the same compact size. They are ideal for applications in the transportation and automotive industries, and in many others where a compact, rugged industrial connector is needed.

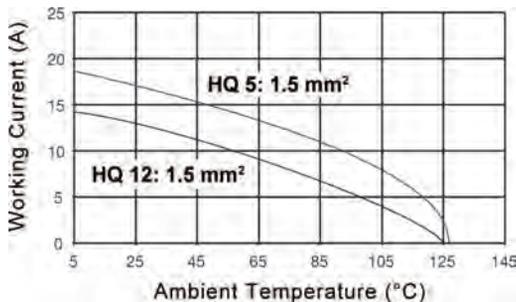
### Technical data

<b>Number of contacts:</b>	5, 12 (+PE)	<b>Rated voltage:</b>	
		- UL/CSA:	600V
		- IEC:	400V
<b>Temperature range:</b>	-40°C to +100°C	<b>Rated current:</b>	
- short-term:	up to +125°C	- UL/CSA:	
		- 5-pole:	16A
<b>Pollution level:</b>	3	- 12-pole:	14A (UL) 10A (CSA)
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed - per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	<b>Wire size:</b>	
		- 5-pole:	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )
		- 12-pole:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )
<b>Test voltage:</b>		<b>Contact material:</b>	silver- or gold-plated copper alloy
- 5-pole:	4 kV	<b>Contact resistance:</b>	≤ 2 mΩ
- 12-pole:	6 kV		

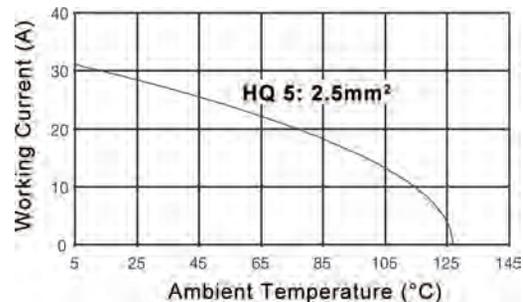
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® HQ derating curves

16 AWG (1.5 mm<sup>2</sup>)



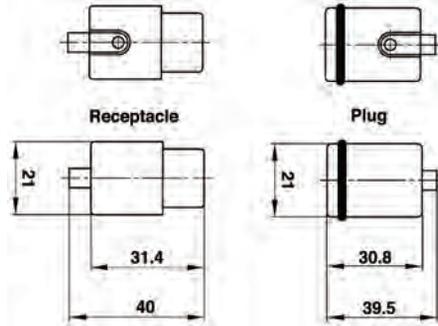
14 AWG (2.5 mm<sup>2</sup>)



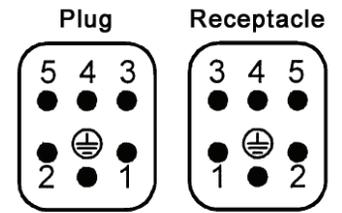
**EPIC® HQ 5**  
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	10431500	10432500

Complete the installation



Coding pin:  
10436500

Compatible housing



HA 3/4  
page 413

Approvals



**2.5 mm contacts**

Machined contacts for EPIC® HQ series inserts



Contact tools



Crimp tool:  
11147000

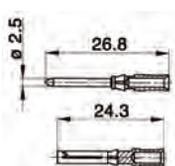


Crimp dies:  
11147100



Locator:  
11147200

for removal of contacts, use a slotted screwdriver; no special tool is necessary



contacts sold in bags of 100

Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75 - 1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

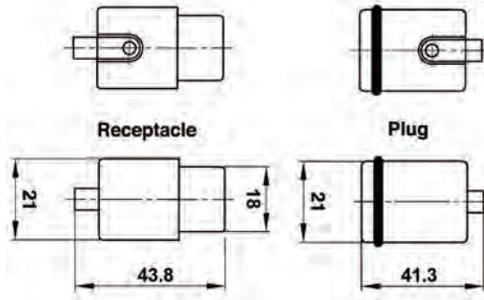
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HQ 12

crimp termination: 600V, 14A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	44424049	44424050

**Complete the installation**



Coding pin:  
44424052

**Compatible housing**



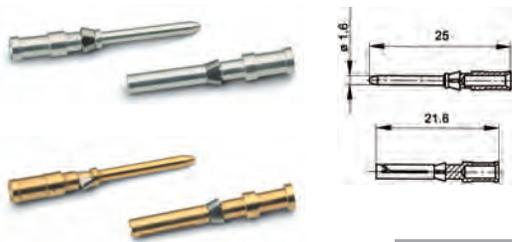
HA 3/4  
page 413

**Approvals**



1.6 mm contacts

Machined contacts for EPIC® HQ series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

**Contact tools**



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® STA series

Inserts with solid spring-designed contacts for low voltage control applications



EPIC® STA series inserts with solid spring-designed contacts are used extensively in the construction of devices and in control units, laboratories, and withdrawable unit design. These inserts are available with screw or solder termination, and fit into EPIC® HA series housings.

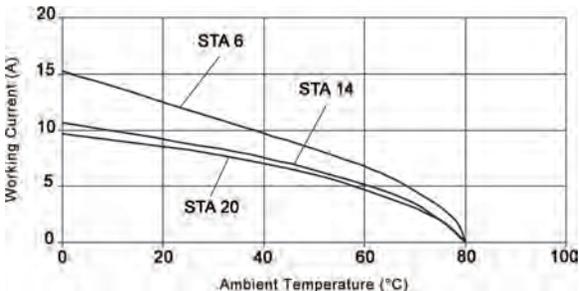
### Technical data

<b>Number of contacts:</b>	6, 14, 20, 40	<b>Rated current:</b>	
		- UL/CSA; IEC:	10A
<b>Temperature range:</b>	-40°C to +80°C	<b>Wire size:</b>	
<b>Pollution level:</b>	2	- solder termination:	up to 16 AWG (1.5 mm <sup>2</sup> )
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed	- screw termination:	20 - 16 AWG (0.5 - 1.5 mm <sup>2</sup> )
<b>Test voltage:</b>	1 kV	<b>Contact material:</b>	silver-plated copper alloy
<b>Rated voltage:</b>		<b>Contact resistance:</b>	< 2 mΩ
- UL/CSA:	48V		
- IEC:	60V		

\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® STA derating curves

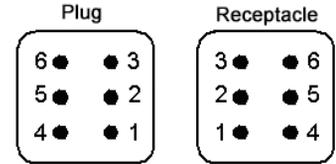
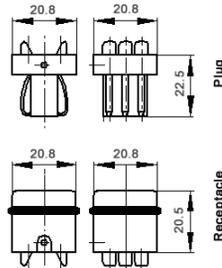
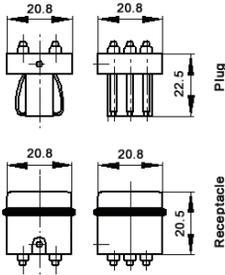
18 AWG (1 mm<sup>2</sup>)



EPIC® STA 6

Screw termination: 48V, 10A

Solder termination: 48V, 10A



view from cable side

all dimensions are in mm

Termination	Plug	Receptacle
screw termination	10488100	10486100
solder termination	10487200	10485200

Compatible housing



HA 3/4  
page 413

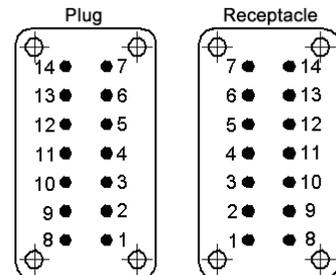
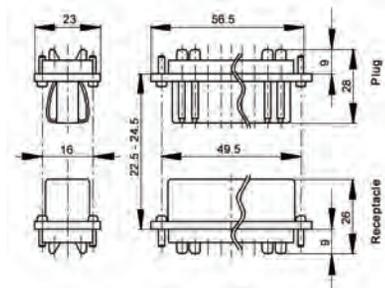
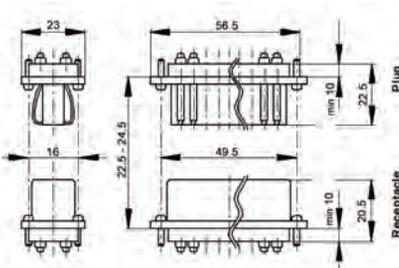
Approvals



EPIC® STA 14

Screw termination: 48V, 10A

Solder termination: 48V, 10A



view from cable side

all dimensions are in mm

Termination	Plug	Receptacle
screw termination	10493100	10491100
solder termination	10492200	10490200

Compatible housing



HA 10  
page 415

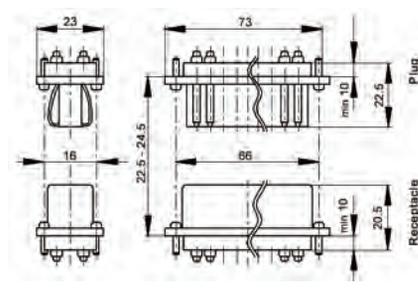
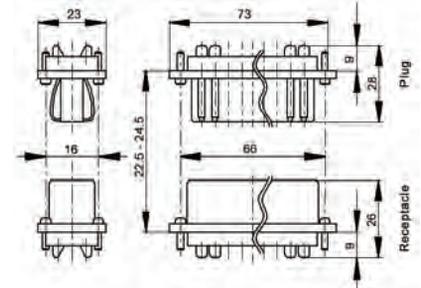
Approvals



## EPIC® STA 20

Screw termination: 48V, 10A

Solder termination: 48V, 10A



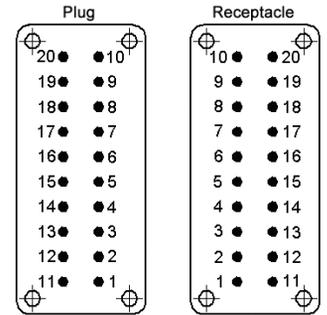
all dimensions are in mm

Termination	Plug	Receptacle
screw termination	10503100	10501100
solder termination	10502200	10500200

Compatible housing



HA 16  
page 417



view from cable side

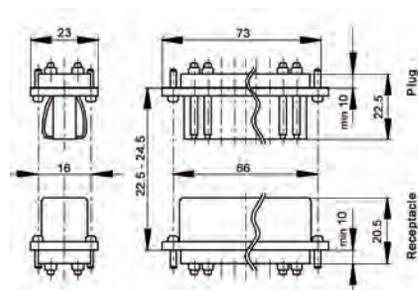
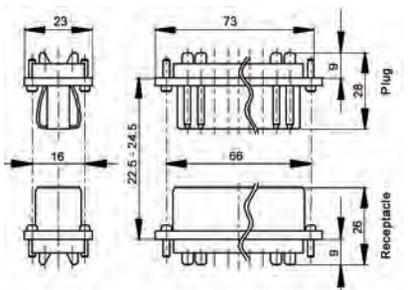
Approvals



## EPIC® STA 40

Screw termination: 48V, 10A

Solder termination: 48V, 10A



all dimensions are in mm

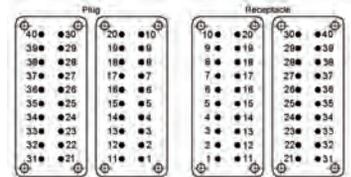
Termination	Plug	Receptacle
screw termination	10503100 (x2)	10501100 (x2)
solder termination	10502200 (x2)	10500200 (x2)

x2 STA 20 inserts, use two part numbers

Compatible housing



HA 32  
page 419



view from cable side

Approvals



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HEE series

Inserts with high crimp contact density for power & control applications



The EPIC® HEE series of crimp-terminated inserts is a high-density companion to the popular EPIC® HBE series. Offering the same voltage and current ratings (600V AC; 16A), it provides a significant increase in contact density (a 67%- 100% increase) within the same footprint dimensions as an equivalent-sized HBE insert. EPIC® HEE inserts are ideal for applications in the automotive industry and any other industrial application requiring high density contacts and immunity to vibration.

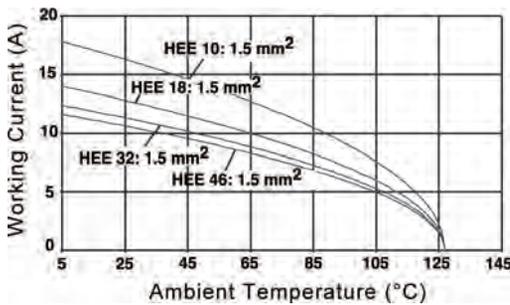
### Technical data

<b>Number of contacts:</b>	10, 18, 32, 46, 64, 92 (+PE)	<b>Test voltage:</b>	6 kV
<b>Temperature range:</b>	-40°C to +100°C	<b>Rated voltage:</b>	
- short-term:	up to +125°C	- UL/CSA:	600V
		- IEC:	500V
<b>Pollution level:</b>	3	<b>Rated current:</b>	16A
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed	<b>Wire size:</b>	20 - 12 AWG (0.5 - 4 mm <sup>2</sup> )
	- per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	<b>Contact material:</b>	silver- or gold-plated copper alloy
		<b>Contact resistance:</b>	≤ 2 mΩ

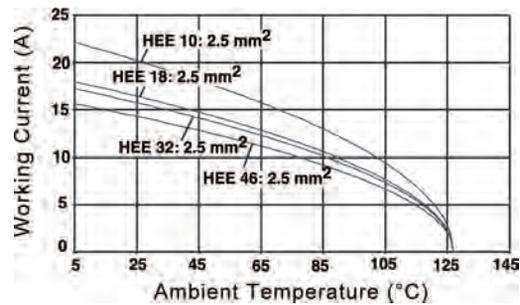
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® HEE derating curves

16 AWG (1.5 mm<sup>2</sup>)



14 AWG (2.5 mm<sup>2</sup>)

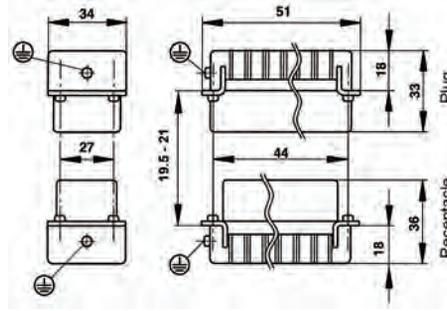


## EPIC® HEE 10

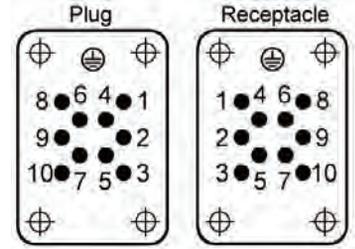
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	10180400	10181400

Compatible housing



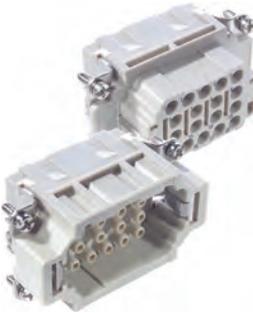
HB 6  
page 379

Approvals

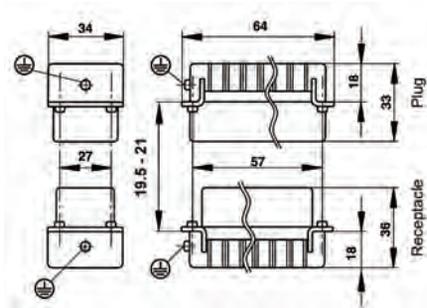


## EPIC® HEE 18

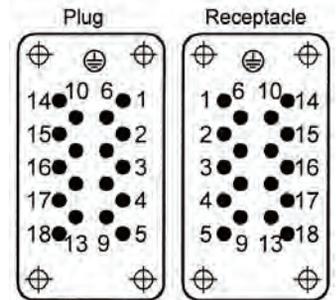
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	10182400	10183400

Compatible housing



HB 10  
page 382

Approvals



## 2.5 mm contacts

### Machined contacts for EPIC® HEE series inserts



Contact tools



Crimp tool:  
11147000

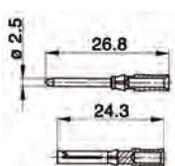


Crimp dies:  
11147100



Locator:  
11147200

for removal of contacts, use a slotted screwdriver; no special tool is necessary



contacts sold in bags of 100

Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75-1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

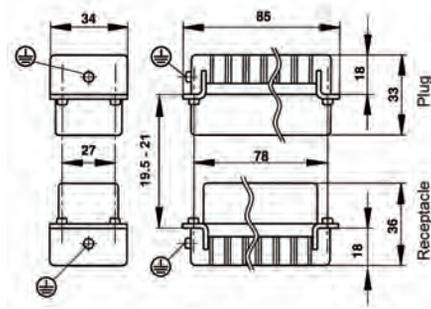
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HEE 32

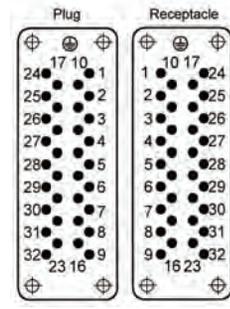
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	10184400	10185400

Compatible housing

HB 16  
page 388

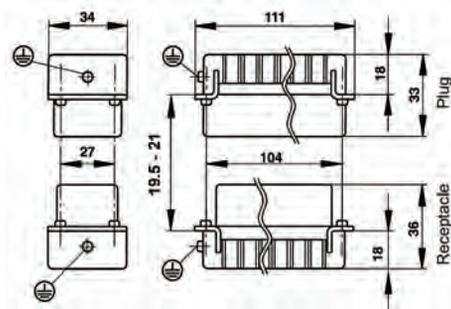
Approvals

EPIC® HEE 46

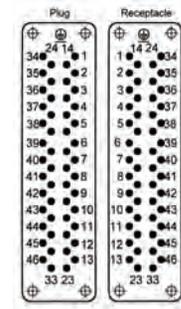
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	10186400	10187400

Compatible housing

HB 24  
page 394

Approvals

2.5 mm contacts

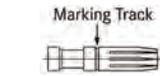
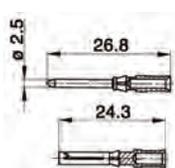
Machined contacts for EPIC® HEE series inserts



Contact tools

	Crimp tool: 11147000		Crimp dies: 11147100		Locator: 11147200
--	-------------------------	--	-------------------------	--	----------------------

for removal of contacts, use a slotted screwdriver; no special tool is necessary



contacts sold in bags of 100

Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75 - 1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

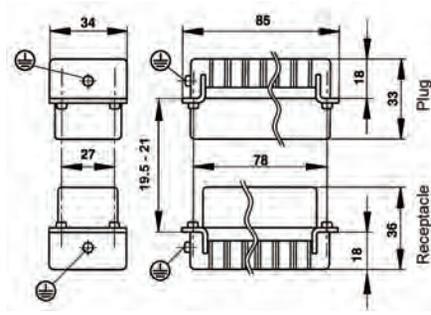
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HEE 64

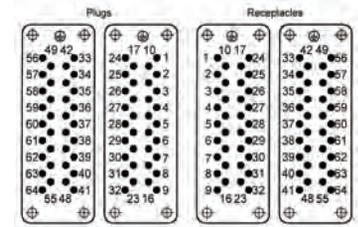
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact numbering	Plug	Receptacle
crimp termination	#1-32	10184400	10185400
	#33-64	10184500	10185500

Compatible housing



HB 32  
page 400

Approvals

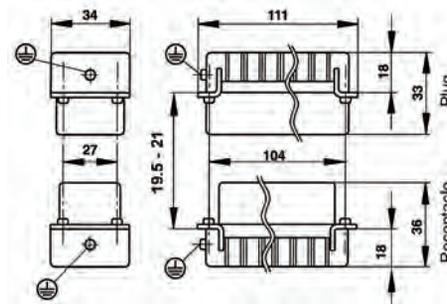


## EPIC® HEE 92

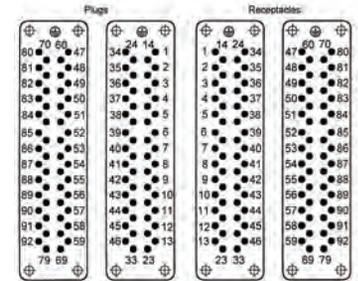
crimp termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact numbering	Plug	Receptacle
crimp termination	#1-46	10186400	10187400
	#47-92	10186500	10187500

Compatible housing



HB 48  
page 402

Approvals



## 2.5 mm contacts

Machined contacts for EPIC® HEE series inserts



Contact tools



Crimp tool:  
11147000

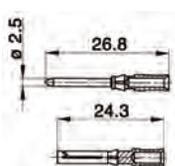


Crimp dies:  
11147100



Locator:  
11147200

for removal of contacts, use a slotted screwdriver; no special tool is necessary



contacts sold in bags of 100

Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75-1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HBS series

### Screw-terminated inserts for high-current power applications



EPIC® HBS series inserts are characterized by their higher current-carrying capacity: a little more than twice the capacity of the EPIC® HBE series. A secure electrical connection can be made by simple screw termination for cables up to 10 AWG.

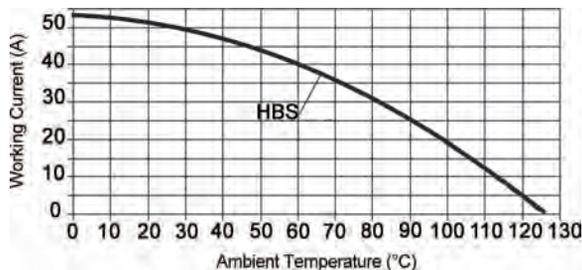
#### Technical data

<b>Number of contacts:</b>	6, 12 (+PE)	<b>Test voltage:</b>	6 kV
<b>Temperature range:</b>	-40°C to +100°C	<b>Rated voltage:</b>	
- short-term:	up to +125°C	- UL/CSA:	600V
		- IEC:	500V
<b>Pollution level:</b>	3	<b>Rated current:</b>	
		- UL/CSA; IEC:	35A
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed	<b>Wire size:</b>	20 - 10 AWG (0.5 - 6 mm <sup>2</sup> )
	- per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	<b>Contact material:</b>	silver-plated copper alloy
		<b>Contact resistance:</b>	< 2 mΩ

\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

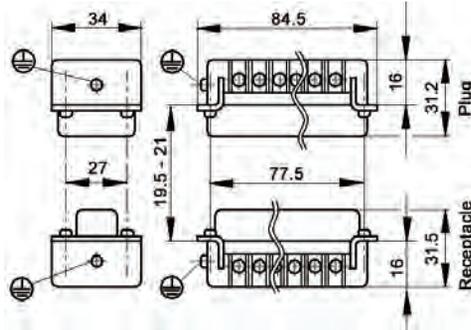
## EPIC® HBS derating curves

10 AWG (6 mm<sup>2</sup>)

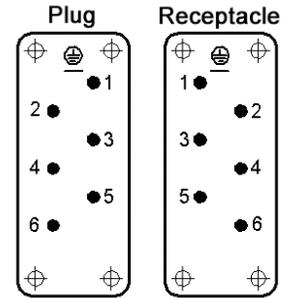


# EPIC® HBS 6

screw termination: 600V, 35A



all dimensions are in mm



view from cable side

Termination	Wire protection	Plug	Receptacle
screw termination	yes	10170000	10171000

**Compatible housing**

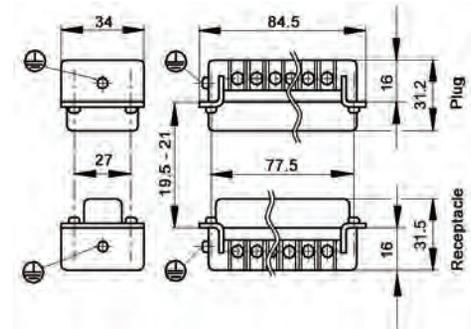
HB 16  
page 388

**Approvals**

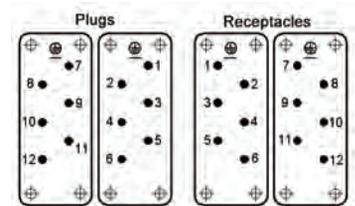


# EPIC® HBS 12

screw termination: 600V, 35A



all dimensions are in mm



view from cable side

Termination	Wire protection	Contact numbering	Plug	Receptacle
screw termination	yes	# 1 - 6	10170000	10171000
		# 7 - 12	10170600	10171600

**Compatible housing**

HB 32  
page 400

**Approvals**



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® Power HS series

Compact axial screw-terminated inserts for high-current power applications



EPIC® Power HS series inserts are characterized by their very high current-carrying capacity in a compact design. A secure electrical connection can be made by simple axial screw termination for cables up to 8 AWG.

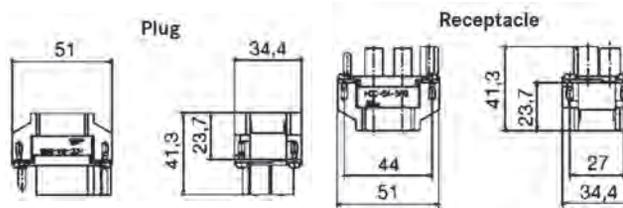
### Technical data

<b>Number of contacts:</b>	4 (+PE)	<b>Test voltage:</b>	8 kV
<b>Temperature range:</b>	-40°C to +125°C	<b>Rated voltage:</b> - UL/CSA:	1000V
<b>Pollution level:</b>	3	<b>Rated current:</b> - UL/CSA; IEC:	65A
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed - per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	<b>Wire size:</b>	14 - 8 AWG (2.5 - 10 mm <sup>2</sup> )
		<b>Contact material:</b>	silver-plated copper alloy
		<b>Contact resistance:</b>	< 1 mΩ

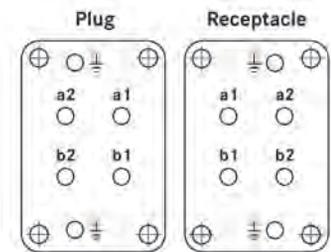
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® Power HS 4

axial screw termination: 1000V, 65A



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
axial screw termination	10407910	10407900

#2 hex wrench is required for axial termination of wire.

#### Contact tools



Axial screw:  
44424028

#### Compatible housing



HB 6  
page 379

#### Approvals



## EPIC® HBVE series

High-voltage screw-terminated inserts with two switch contacts for power applications



EPIC® HBVE series inserts handle higher voltage and are equipped with two switch contacts. These contacts “make” after the working contacts are engaged and “break” before the working contacts disengage. They can be wired as part of an electrical interlock circuit to ensure that power to the working contacts is turned off during connector mating and unmating.

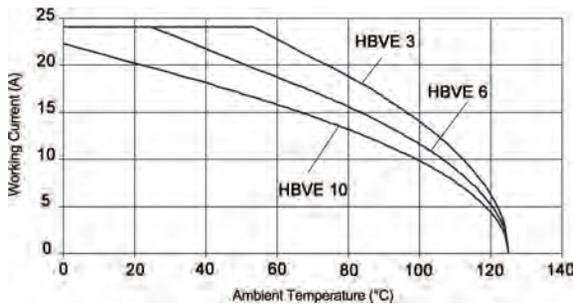
### Technical data

<b>Number of contacts:</b>	3+2+PE, 6+2+PE, 10+2+PE	<b>Test voltage:</b>	6 kV
<b>Temperature range:</b>	-40°C to +100°C	<b>Rated voltage:</b>	
- short-term:	up to +125°C	- UL/CSA:	600V
		- IEC:	630V
<b>Pollution level:</b>	3	<b>Rated current:</b>	
		- UL/CSA; IEC:	16A
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed - per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	<b>Wire size:</b>	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )
		<b>Contact material:</b>	silver-plated copper alloy
		<b>Contact resistance:</b>	< 2 mΩ

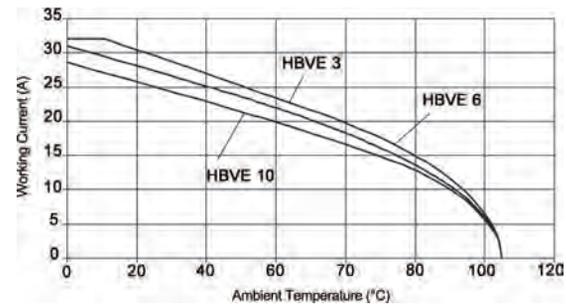
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® HBVE derating curves

16 AWG (1.5 mm<sup>2</sup>)



14 AWG (2.5 mm<sup>2</sup>)

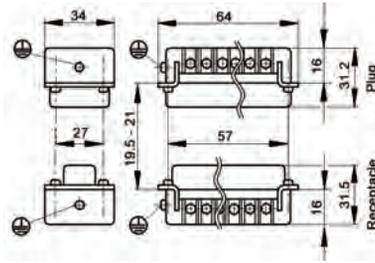


### EPIC® HBVE 3

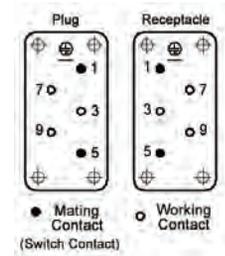
screw termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Wire protection	Plug	Receptacle
screw termination	yes	10210010	10211010
screw termination	no	10210110	10211110

Compatible housing



HB 10  
page 382

Approvals

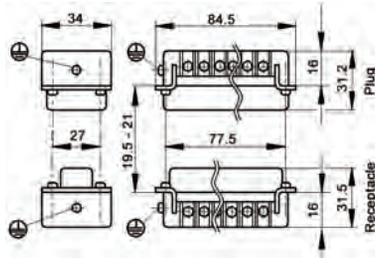


### EPIC® HBVE 6

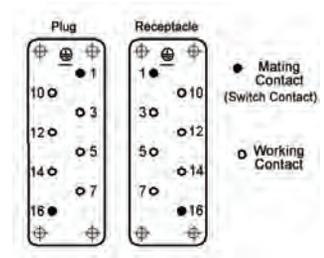
screw termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Wire protection	Plug	Receptacle
screw termination	yes	10239010	10240010
screw termination	no	10239110	10240110

Compatible housing



HB 16  
page 388

Approvals

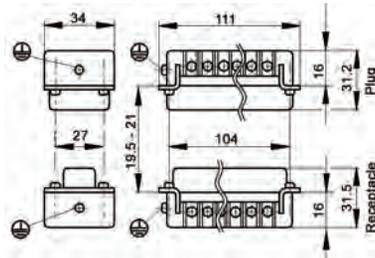


### EPIC® HBVE 10

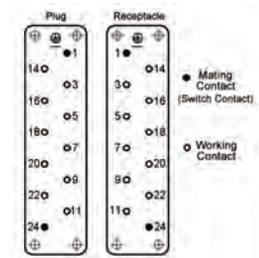
screw termination: 600V, 16A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Wire protection	Plug	Receptacle
screw termination	yes	10270010	10271010
screw termination	no	10270110	10271110

Compatible housing



HB 24  
page 394

Approvals



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD series

Compact high-density crimp-terminated inserts for control applications



EPIC® HD series inserts are designed for use in industries where large numbers of contacts are required and limited space is available. These high-density crimp inserts are available with stamped & formed or machined contacts and fit into EPIC® HA & HB series housings.

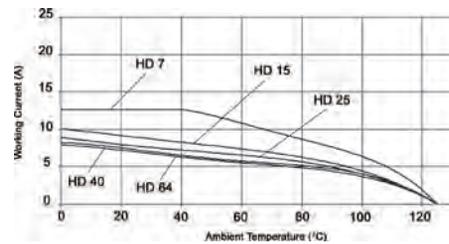
## Technical data

<b>Number of contacts:</b>	7, 8, 15, 25, 40, 50, 64, 80, 128 (+PE)	<b>Rated voltage:</b>	
		- UL/CSA:	250V
<b>Temperature range:</b>	-40°C to +100°C	- IEC EPIC® HD 7 - 8:	
- short-term:	up to +125°C	- in metal housing:	24V AC/60V DC
		- in plastic housing:	250V
<b>Pollution level:</b>	3	- IEC EPIC® HD 15 - 128:	250V
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed - per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	<b>Test voltage:</b>	2.5 kV
<b>Rated current:</b>		<b>Wire size:</b>	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )
- UL/CSA, IEC:	10A	<b>Contact material:</b>	silver- or gold-plated copper alloy
		<b>Contact resistance:</b>	< 2 mΩ
		- EPIC® HD 40, 64 - 128 (machined contacts):	< 3 mΩ

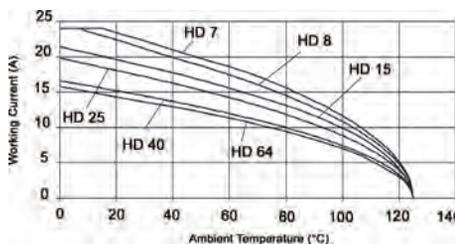
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® HD derating curves

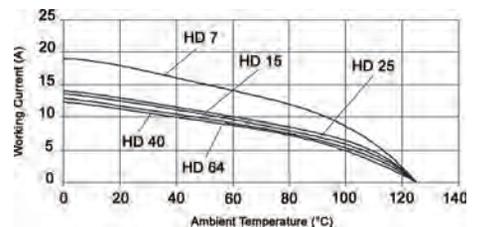
20 AWG (0.5 mm<sup>2</sup>)  
machined contacts



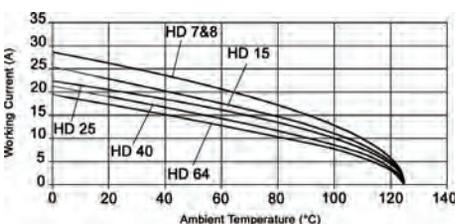
16 AWG (1.5 mm<sup>2</sup>)  
machined contacts



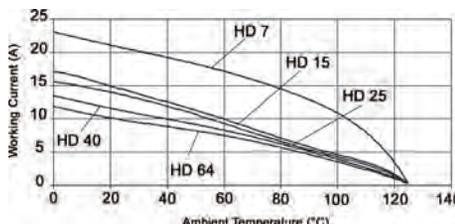
16 AWG (1.5 mm<sup>2</sup>)  
stamped & formed contacts



14 AWG (2.5 mm<sup>2</sup>)  
machined contacts

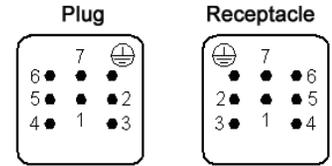
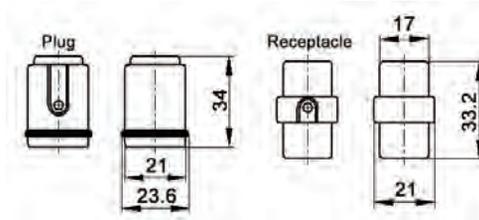


14 AWG (2.5 mm<sup>2</sup>)  
stamped & formed contacts



EPIC® HD 7

Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below

all dimensions are in mm

view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11250500	11251500

Compatible housing



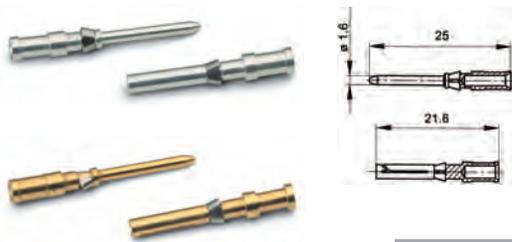
HA 3/4  
page 413

Approvals



1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

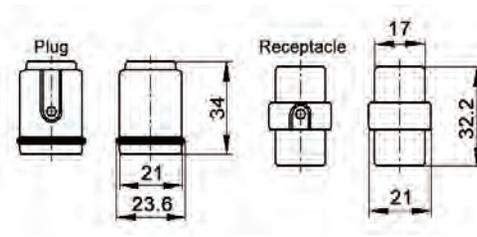
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 7

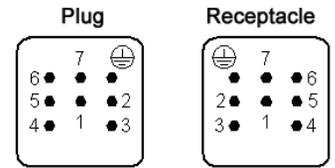
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11250000	11251000

**Compatible housing**



HA 3/4  
page 413

**Approvals**



## 1.6 mm contacts

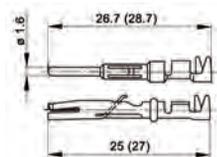
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

**Contact tools**

	Crimp tool: 11147000		Locator: 11147300		Removal tool: 11161000
	Crimp dies: 0.14-0.5 mm <sup>2</sup> : 11147170 0.5-1.5 mm <sup>2</sup> : 11147180 1.5-2.5 mm <sup>2</sup> : 11147190		Crimp tool, die & locator: 0.14-0.5 mm <sup>2</sup> : 11147004 0.5-1.5 mm <sup>2</sup> : 11147005 1.5-2.5 mm <sup>2</sup> : 11147006		



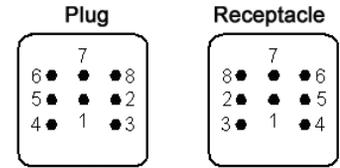
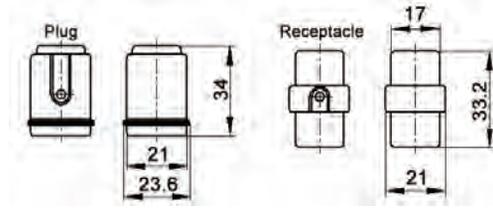
Contact size mm <sup>2</sup>	AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed	
			pin	socket	pin	socket	pin	socket	pin	socket
0.14-0.5	26-20	2.5-0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5-1.5	20-16	3.5-0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5-2.5	16-14	3.5-0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup>	AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed	
			pin	socket	pin	socket	pin	socket	pin	socket
0.14-0.5	26-20	2.5-0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5-1.5	20-16	3.5-0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5-2.5	16-14	3.5-0.5	—	—	—	—	11222700	11227700	—	—

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 8

Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below

all dimensions are in mm

view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11252500	11253500

Compatible housing



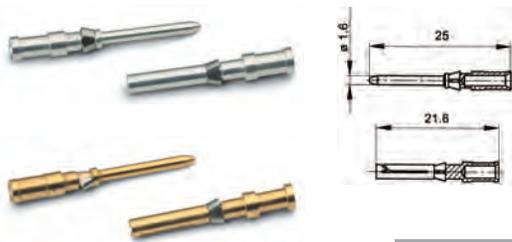
HA 3/4  
page 413

Approvals



## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

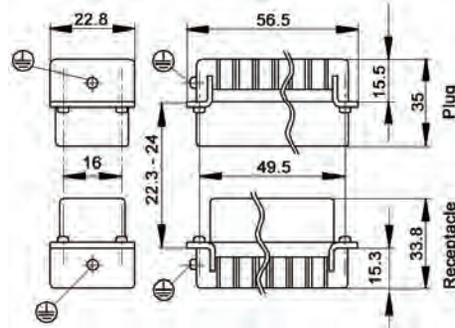
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 15

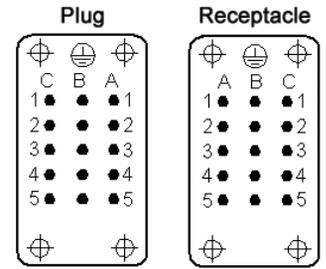
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11283200	11282200

**Compatible housing**

HA 10  
page 415

**Approvals**



## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm²	AWG			pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

**Contact tools**



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

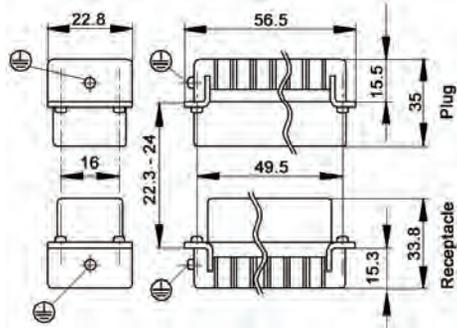
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HD 15

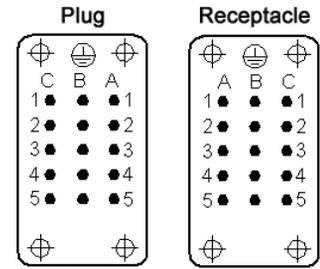
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11255000	11256000

**Compatible housing**

HA 10  
page 415

**Approvals**

1.6 mm contacts

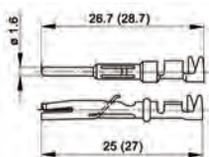
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

**Contact tools**

Crimp tool: 11147000	Locator: 11147300	Removal tool: 11161000
Crimp dies: 0.14 - 0.5 mm <sup>2</sup> : 11147170 0.5 - 1.5 mm <sup>2</sup> : 11147180 1.5 - 2.5 mm <sup>2</sup> : 11147190	Crimp tool, die & locator: 0.14 - 0.5 mm <sup>2</sup> : 11147004 0.5 - 1.5 mm <sup>2</sup> : 11147005 1.5 - 2.5 mm <sup>2</sup> : 11147006	



Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5 - 1.5	20 - 16	3.5 - 0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5 - 2.5	16 - 14	3.5 - 0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5 - 1.5	20 - 16	3.5 - 0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5 - 2.5	16 - 14	3.5 - 0.5	—	—	—	—	11222700	11227700	—	—

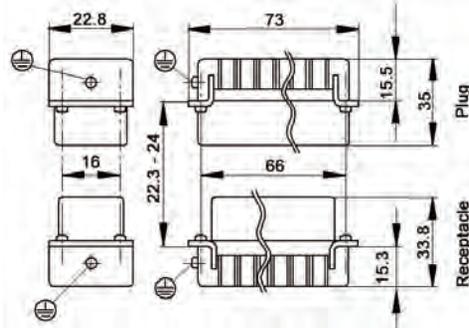
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 25

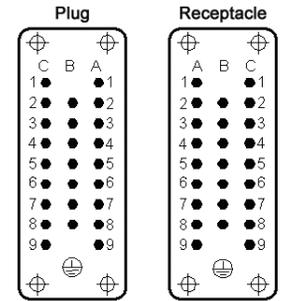
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11283300	11282300

**Compatible housing**

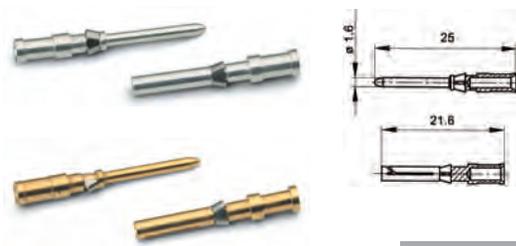
HA 16  
page 417

**Approvals**



## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size mm²	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

**Contact tools**

	Crimp tool: 11147000		Crimp dies: 11147100		Locator: 11147200		Removal tool: 11161000
--	-------------------------	--	-------------------------	--	----------------------	--	---------------------------

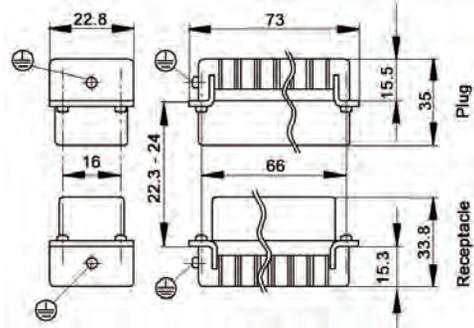
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HD 25

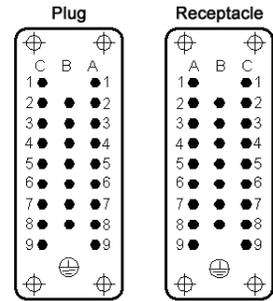
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11260000	11261000

Compatible housing

HA 16  
page 417

Approvals

1.6 mm contacts

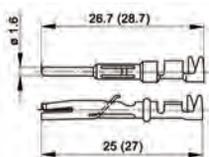
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

Contact tools

	Crimp tool: 11147000		Locator: 11147300		Removal tool: 11161000
	Crimp dies: 0.14 - 0.5 mm <sup>2</sup> : 11147170 0.5 - 1.5 mm <sup>2</sup> : 11147180 1.5 - 2.5 mm <sup>2</sup> : 11147190		Crimp tool, die & locator: 0.14 - 0.5 mm <sup>2</sup> : 11147004 0.5 - 1.5 mm <sup>2</sup> : 11147005 1.5 - 2.5 mm <sup>2</sup> : 11147006		



Contact size		Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed	
mm <sup>2</sup>	AWG		pin	socket	pin	socket	pin	socket	pin	socket
0.14 - 0.5	26 - 20	2.5 - 0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5 - 1.5	20 - 16	3.5 - 0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5 - 2.5	16 - 14	3.5 - 0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size		Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed	
mm <sup>2</sup>	AWG		pin	socket	pin	socket	pin	socket	pin	socket
0.14 - 0.5	26 - 20	2.5 - 0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5 - 1.5	20 - 16	3.5 - 0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5 - 2.5	16 - 14	3.5 - 0.5	—	—	—	—	11222700	11227700	—	—

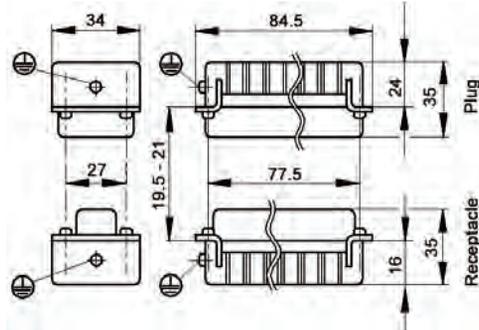
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 40

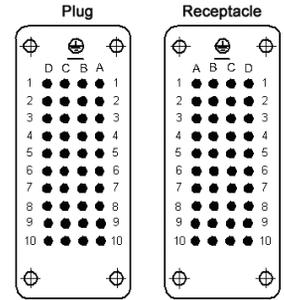
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11265200	11266200

**Compatible housing**

HB 16  
page 388

**Approvals**

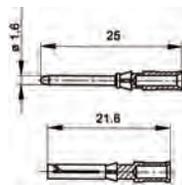


## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100



Contact size mm²	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

**Contact tools**



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

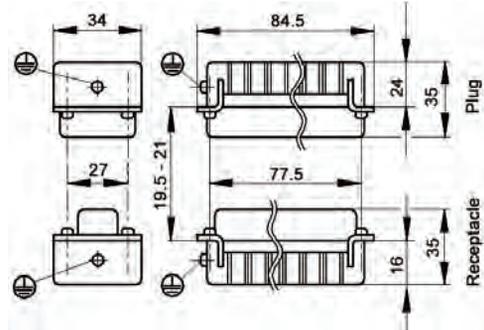
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HD 40

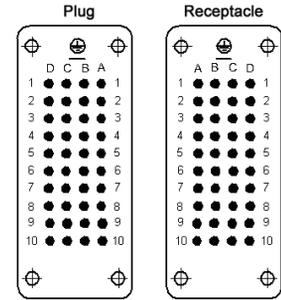
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11265000	11266000

Compatible housing

HB 16  
page 388

Approvals

1.6 mm contacts

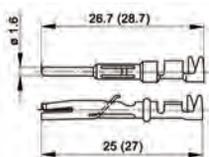
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

Contact tools

Crimp tool: 11147000	Locator: 11147300	Removal tool: 11161000
Crimp dies: 0.14 - 0.5 mm <sup>2</sup> : 11147170 0.5 - 1.5 mm <sup>2</sup> : 11147180 1.5 - 2.5 mm <sup>2</sup> : 11147190	Crimp tool, die & locator: 0.14 - 0.5 mm <sup>2</sup> : 11147004 0.5 - 1.5 mm <sup>2</sup> : 11147005 1.5 - 2.5 mm <sup>2</sup> : 11147006	



Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5 - 1.5	20 - 16	3.5 - 0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5 - 2.5	16 - 14	3.5 - 0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5 - 1.5	20 - 16	3.5 - 0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5 - 2.5	16 - 14	3.5 - 0.5	—	—	—	—	11222700	11227700	—	—

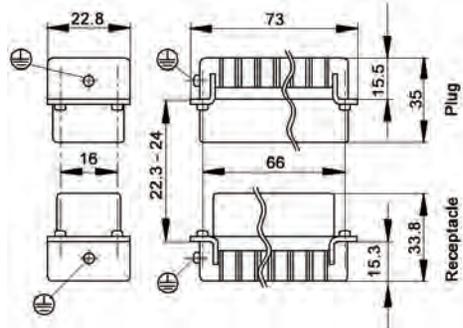
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 50

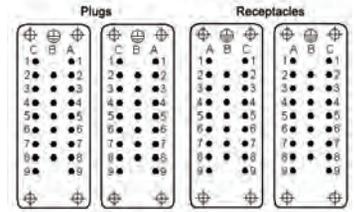
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11283300 x2	11282300 x2

x2 HD 25 inserts, use two part numbers

### Compatible housing



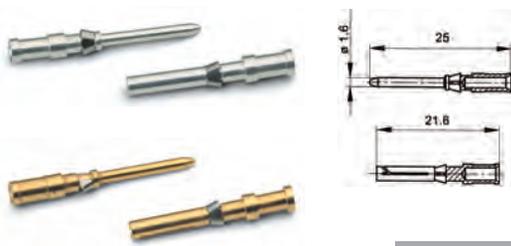
HA 32  
page 419

### Approvals



## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size mm²	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

### Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

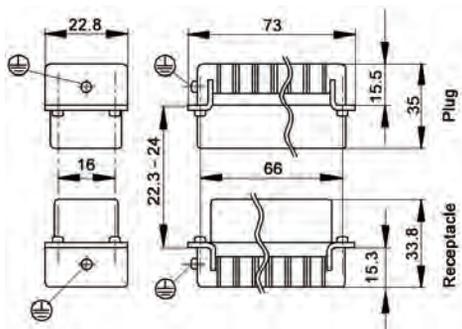
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 50

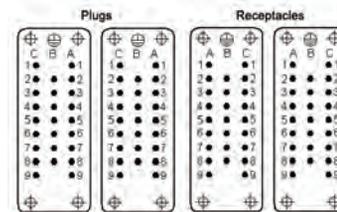
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11260000 x2	11261000 x2

x2 HD 25 inserts, use two part numbers

**Compatible housing**



HA 32  
page 419

**Approvals**



## 1.6 mm contacts

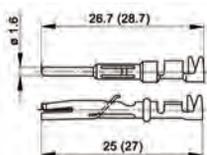
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

**Contact tools**

 Crimp tool: 11147000	 Locator: 11147300	 Removal tool: 11161000
 Crimp dies: 0.14-0.5 mm <sup>2</sup> : 11147170 0.5-1.5 mm <sup>2</sup> : 11147180 1.5-2.5 mm <sup>2</sup> : 11147190	 Crimp tool, die & locator: 0.14-0.5 mm <sup>2</sup> : 11147004 0.5-1.5 mm <sup>2</sup> : 11147005 1.5-2.5 mm <sup>2</sup> : 11147006	



Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14-0.5	26-20	2.5-0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5-1.5	20-16	3.5-0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5-2.5	16-14	3.5-0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14-0.5	26-20	2.5-0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5-1.5	20-16	3.5-0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5-2.5	16-14	3.5-0.5	—	—	—	—	11222700	11227700	—	—

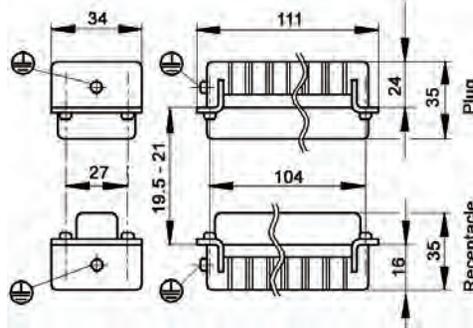
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 64

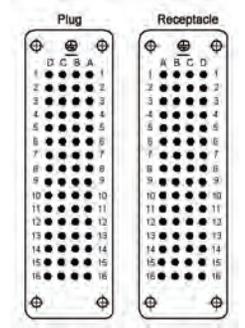
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11272000	11273000

Compatible housing



HB 24  
page 394

Approvals



## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size mm <sup>2</sup>	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

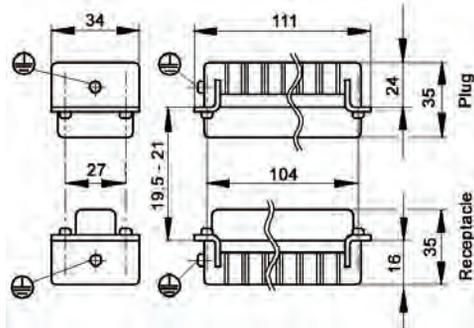
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HD 64

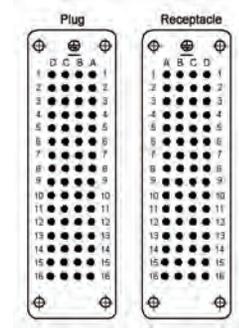
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11270000	11271000

Compatible housing



HB 24  
page 394

Approvals



1.6 mm contacts

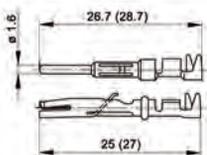
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

Contact tools

 Crimp tool: 11147000	 Locator: 11147300	 Removal tool: 11161000
 Crimp dies: 0.14-0.5 mm <sup>2</sup> : 11147170 0.5-1.5 mm <sup>2</sup> : 11147180 1.5-2.5 mm <sup>2</sup> : 11147190	 Crimp tool, die & locator: 0.14-0.5 mm <sup>2</sup> : 11147004 0.5-1.5 mm <sup>2</sup> : 11147005 1.5-2.5 mm <sup>2</sup> : 11147006	



Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14-0.5	26-20	2.5-0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5-1.5	20-16	3.5-0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5-2.5	16-14	3.5-0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14-0.5	26-20	2.5-0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5-1.5	20-16	3.5-0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5-2.5	16-14	3.5-0.5	—	—	—	—	11222700	11222700	—	—

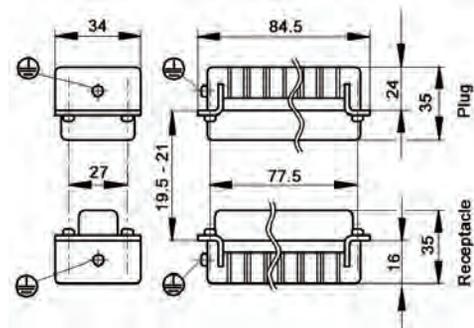
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 80

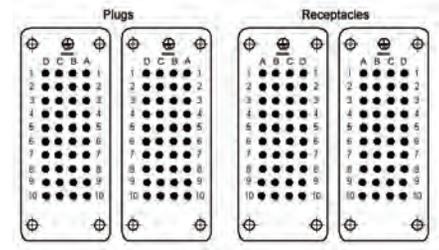
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11265200 x2	11266200 x2

x2 HD 40 inserts, use two part numbers

**Compatible housing**

HB 32  
page 400

**Approvals**

## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size mm²	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

**Contact tools**

Crimp tool: 11147000	Crimp dies: 11147100	Locator: 11147200	Removal tool: 11161000
-------------------------	-------------------------	----------------------	---------------------------

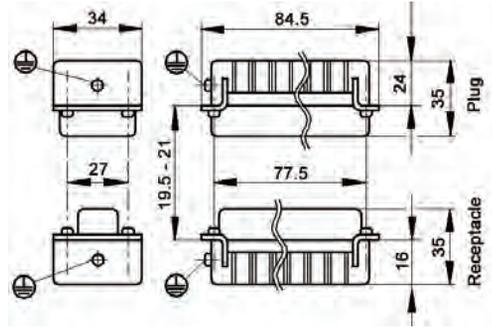
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HD 80

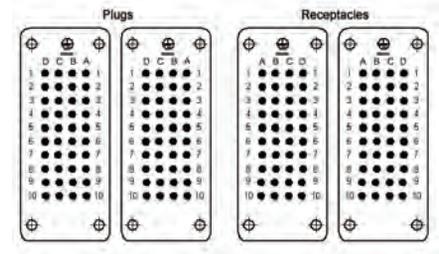
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	11265000 x2	11266000 x2

x2 HD 40 inserts, use two part numbers

**Compatible housing**



HB 32  
page 400

**Approvals**



1.6 mm contacts

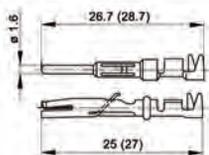
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

**Contact tools**

 Crimp tool: 11147000	 Locator: 11147300	 Removal tool: 11161000
 Crimp dies: 0.14-0.5 mm <sup>2</sup> : 11147170 0.5-1.5 mm <sup>2</sup> : 11147180 1.5-2.5 mm <sup>2</sup> : 11147190	 Crimp tool, die & locator: 0.14-0.5 mm <sup>2</sup> : 11147004 0.5-1.5 mm <sup>2</sup> : 11147005 1.5-2.5 mm <sup>2</sup> : 11147006	



Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14-0.5	26-20	2.5-0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5-1.5	20-16	3.5-0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5-2.5	16-14	3.5-0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14-0.5	26-20	2.5-0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5-1.5	20-16	3.5-0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5-2.5	16-14	3.5-0.5	—	—	—	—	11222700	11227700	—	—

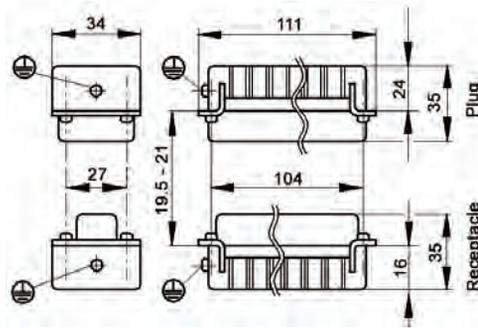
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® HD 128

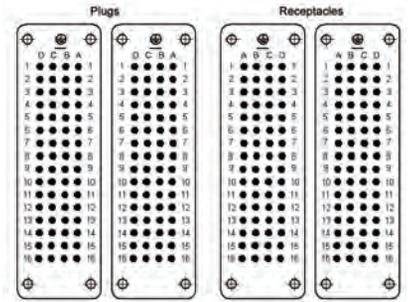
Crimp termination for machined contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	machined	11272000 x2	11273000 x2

x2 HD 64 inserts, use two part numbers

Compatible housing



HB 48  
page 402

Approvals



## 1.6 mm contacts

Machined contacts for EPIC® HD series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm²	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

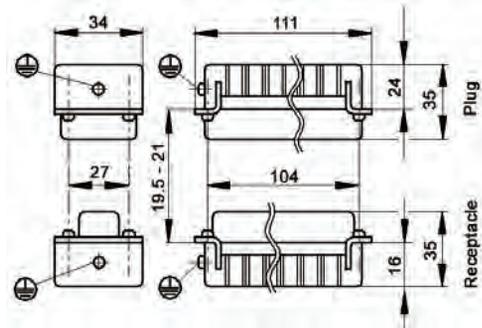
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® HD 128

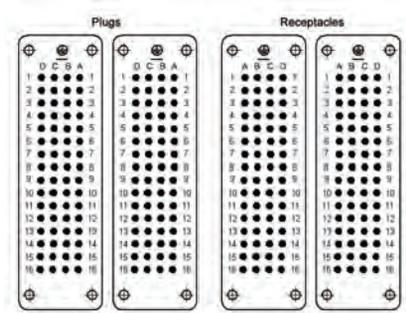
Crimp-terminated for stamped & formed contacts: 250V, 10A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact type	Plug	Receptacle
crimp termination	stamped & formed	1127000 x2	1127100 x2

x2 HD 64 inserts, use two part numbers

Compatible housing



HA 48  
page 421

Approvals



1.6 mm contacts

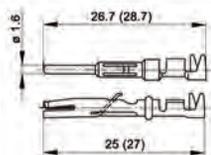
Stamped & formed contacts for EPIC® HD series inserts



contacts sold in bags of 100 or 1 reel

Contact tools

 Crimp tool: 11147000	 Locator: 11147300	 Removal tool: 11161000
 Crimp dies: 0.14 - 0.5 mm <sup>2</sup> : 11147170 0.5 - 1.5 mm <sup>2</sup> : 11147180 1.5 - 2.5 mm <sup>2</sup> : 11147190	 Crimp tool, die & locator: 0.14 - 0.5 mm <sup>2</sup> : 11147004 0.5 - 1.5 mm <sup>2</sup> : 11147005 1.5 - 2.5 mm <sup>2</sup> : 11147006	



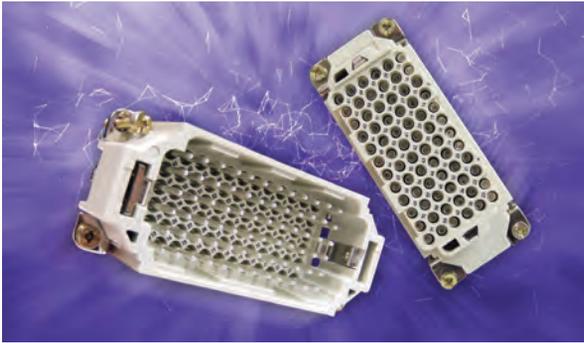
Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5 - 1.5	20 - 16	3.5 - 0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5 - 2.5	16 - 14	3.5 - 0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5 - 1.5	20 - 16	3.5 - 0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5 - 2.5	16 - 14	3.5 - 0.5	—	—	—	—	11222700	11227700	—	—

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HDD series

Ultra high-density crimp-terminated inserts for control applications



EPIC® HDD series inserts offer the highest possible machined contact density in a compact insert design. With more contacts available in a single insert, smaller connector housings can be used to provide significant panel space savings.

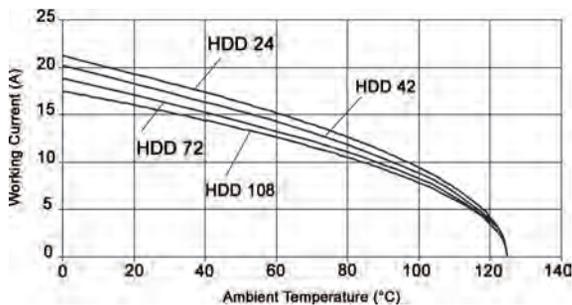
### Technical data

<b>Number of contacts:</b>	24, 42, 72, 108, 144, 216 (+PE)	<b>Rated voltage:</b>	
		- UL/CSA:	600V
<b>Temperature range:</b>	-40°C to +100°C	- IEC:	250V
- short-term:	up to +125°C		
<b>Pollution level:</b>	2	<b>Rated current:</b>	
		- UL:	8.5A
<b>Mating cycles:</b>	- per DIN EN 61984:2008	- CSA:	10A
	Service Life Test: Tested to 100	- IEC:	10A
	cycles and passed		
	- per Contact Thermal Test: Useful	<b>Wire size:</b>	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )
	service up to 500 cycles is possible	<b>Contact material:</b>	silver- or gold-plated copper alloy
	at rated voltage and current*	<b>Contact resistance:</b>	< 3 mΩ
<b>Test voltage:</b>	2.5 kV		

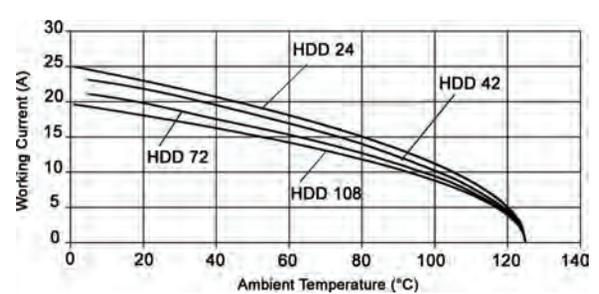
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® HDD derating curves

16 AWG (1.5 mm<sup>2</sup>)



14 AWG (2.5 mm<sup>2</sup>)

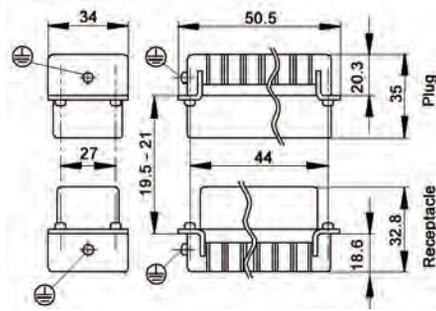


## EPIC® HDD 24

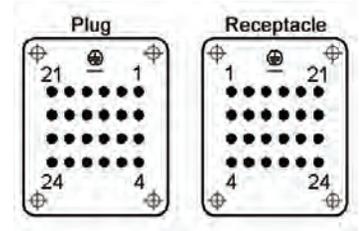
Crimp termination: 600V, 8.5A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	11285000	11286000

Compatible housing



HB 6  
page 379

Approvals

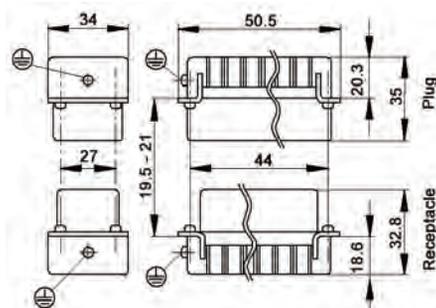


## EPIC® HDD 42

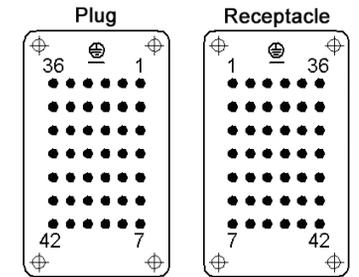
Crimp termination: 600V, 8.5A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	11285100	11286100

Compatible housing



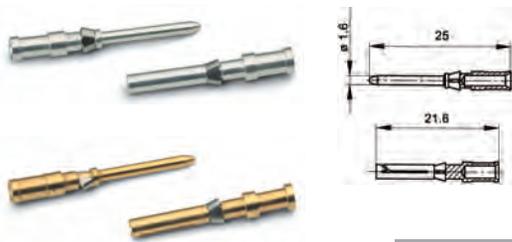
HB 10  
page 382

Approvals



## 1.6 mm contacts

Machined contacts for EPIC® HDD series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

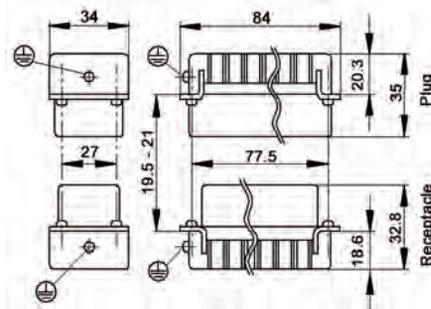
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HDD 72

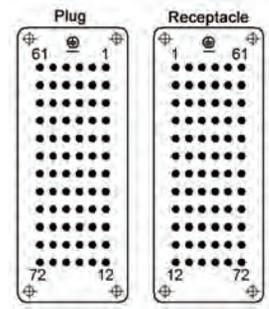
Crimp termination: 600V, 8.5A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	11285200	11286200

### Compatible housing



HB 16  
page 388

### Approvals

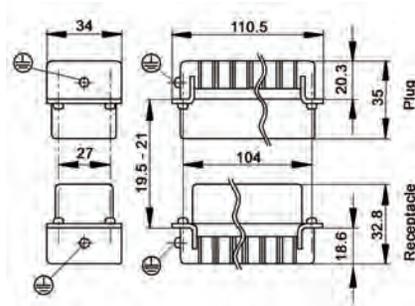


## EPIC® HDD 108

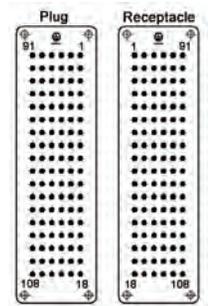
Crimp termination: 600V, 8.5A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Plug	Receptacle
crimp termination	11285300	11286300

### Compatible housing



HB 24  
page 394

### Approvals



## 1.6 mm contacts

Machined contacts for EPIC® HDD series inserts



contacts sold in bags of 100

Contact size mm <sup>2</sup>	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

### Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

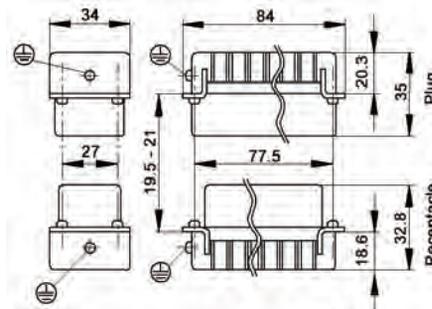
If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® HDD 144

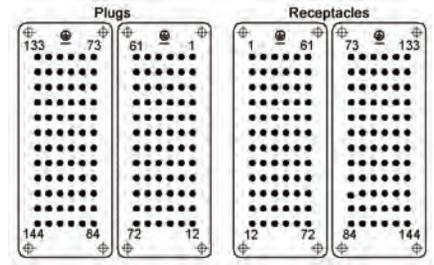
Crimp termination: 600V, 8.5A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact numbering	Plug	Receptacle
crimp termination	#1-72	11285200	11286200
	#73-144	11285400	11286400

**Compatible housing**

HB 32  
page 400

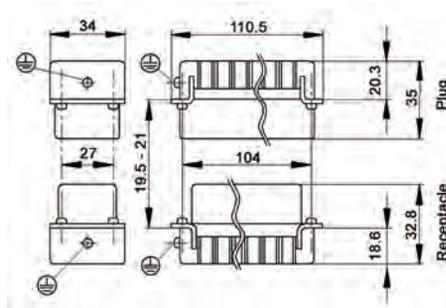
**Approvals**

## EPIC® HDD 216

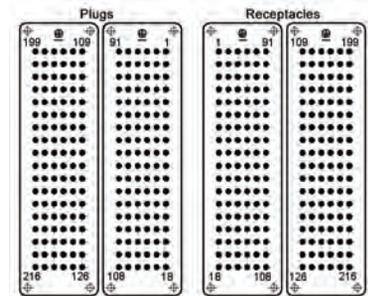
Crimp termination: 600V, 8.5A



contacts sold separately, see below



all dimensions are in mm



view from cable side

Termination	Contact numbering	Plug	Receptacle
crimp termination	#1-108	11285300	11286300
	#109-216	11285500	11286500

**Compatible housing**

HB 48  
page 402

**Approvals**

## 1.6 mm contacts

Machined contacts for EPIC® HDD series inserts



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

**Contact tools**

	Crimp tool: 11147000		Crimp dies: 11147100		Locator: 11147200		Removal tool: 11161000
--	-------------------------	--	-------------------------	--	----------------------	--	---------------------------

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH series

Modular system for power, signal & data



The EPIC® MH series is a modular connector system capable of transmitting power, signal and data in a single connector. The series is designed to be assembled with ease and is compatible with other standard modular systems in the market.

### Technical data

<b>Number of contacts:</b>		<b>Test voltage:</b>	0.8 kV - 8 kV, depending on module
- power:	2, 3, 4, 6	<b>Rated voltage:</b>	50 - 1000V
- signal:	8, 12, 17, 20	<b>Rated current:</b>	10 - 100A
- data:	2x2, 36-pole	<b>Wire size:</b>	26 - 8 AWG (0.14 - 10 mm <sup>2</sup> )
<b>Temperature range:</b>	see product page	<b>Contact material:</b>	silver-plated copper alloy
<b>Pollution level:</b>	3	<b>Contact resistance:</b>	< 5 mΩ
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 500 cycles and passed	<b>Approvals:</b>	UL File Number: E75770 (where applicable)

# EPIC® MH 2

2-position module for power transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	2	44423212	44423213	8 mm

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	1000V
Rated current:	100A
Wire size:	8 - 1 AWG (10 - 35 mm²)

### Complete the installation



MH frames  
page 349

### Approvals



## 8 mm contacts

Machined contacts for EPIC® MH series modules



Contact size		Stripping length mm	Bag of 10 silver contacts		Pack size
mm²	AWG		pin	socket	
10	8	18	44423242	44423246	10
16	6	18	44423243	44423247	10
25	4	18	44423244	44423248	10
35	2	18	44423245	44423249	10

### Contact tools

	Crimp dies:	
	10 mm²:	44423270
	16 mm²:	44423271
	25 mm²:	44423272
	35 mm²:	44423273



Removal tool:  
44423269

Use with hydraulic crimp tool

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH 3

### 3-position module for power transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44423214	44423215	4 mm

#### Technical data

<b>Temperature range:</b>	-40°C to +125°C
<b>Rated voltage:</b>	
- conductor/ground:	400V
- conductor/conductor:	690V
<b>Rated current:</b>	40A
<b>Wire size:</b>	16 - 8 AWG (1.5 - 10 mm <sup>2</sup> )

#### Complete the installation



#### Approvals



## EPIC® MH 4

### 4-position module for power transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44423216	44423217	4 mm

#### Technical data

<b>Temperature range:</b>	-40°C to +125°C
<b>Rated voltage:</b>	830V
<b>Rated current:</b>	40A
<b>Wire size:</b>	16 - 8 AWG (1.5 - 10 mm <sup>2</sup> )

#### Complete the installation



#### Approvals



## 4 mm contacts

### Machined contacts for EPIC® MH series modules



Contact size	Stripping length	mm	Bag of 10 silver contacts		Pack size
			mm <sup>2</sup>	AWG	
1.5	16	10	44423250	44423255	10
2.5	14	10	44423251	44423256	10
4	12	10	44423252	44423257*	10
6	10	10	44423253	44423258	10
10	8	10	44423254	44423259	10

\* contact 44423257 requires crimp die 11174101

#### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
16 - 12 AWG: 11147100  
10 - 8 AWG: 11147101



Locator:  
11147201



Removal tool:  
44423268

If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH 6

6-position module for signal transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44423218	44423219	2.5 mm

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	500V
Rated current:	16A
Wire size:	26 - 12 AWG (0.14 - 4 mm <sup>2</sup> )

### Complete the installation



MH frames  
page 349

### Approvals



## EPIC® MH 8

8-position module for signal transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44423220	44423221	2.5 mm

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	400V
Rated current:	16A
Wire size:	26 - 12 AWG (0.14 - 4 mm <sup>2</sup> )

### Complete the installation



MH frames  
page 349

### Approvals



## 2.5 mm contacts

Machined contacts for EPIC® MH series modules



### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200

for removal of contacts, use a slotted screwdriver; no special tool is necessary



Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75-1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH 12

12-position module for signal transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44423222	44423223	1.6 mm

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	250V
Rated current:	10A
Wire size:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )

### Complete the installation



### Approvals



## EPIC® MH 17

17-position module for signal transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44423224	44423225	1.6 mm

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	160V
Rated current:	10A
Wire size:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )

### Complete the installation

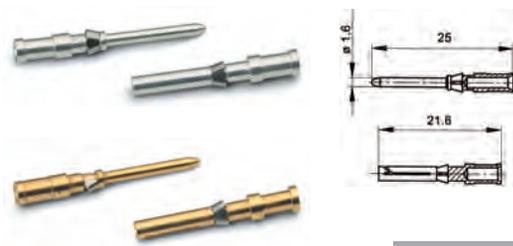


### Approvals



## 1.6 mm contacts

### Machined contacts for EPIC® MH series modules



Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	5.8	5	13162400	13163400	13162900	13163900

### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

# EPIC® MH 20

20-position module for signal transmission



mount in high profile housings only  
contacts sold separately, see below

Technical data	
Temperature range:	-40°C to +125°C
Rated voltage:	500V
Rated current:	16A
Wire size:	26 - 12 AWG (0.14 - 4 mm <sup>2</sup> )

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	2	44423226	44423227	2.5 mm

**Complete the installation**



MH frames  
page 349

**Approvals**



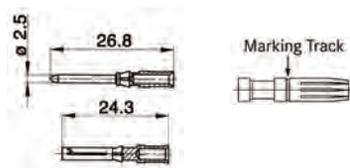
## 2.5 mm contacts

Machined contacts for EPIC® MH series modules



Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	—	11190000	11195000	11192000	11197000
0.75 - 1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	—	—
4.0	12	7.4	7.3	—	11190400	11195400	—	—

contacts sold in bags of 100



**Complete the installation**



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11182500

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH 36

36-position module for signal transmission



mount in high profile housings only  
contacts sold separately, see below

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	2	44423266	44423267	1.6 mm

Both plug and receptacle modules accept male and female contacts

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	250V
Rated current:	10A
Wire size:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )

### Complete the installation



### Approvals



## EPIC® MH 0

Dummy module



mount in high profile housings only  
contacts sold separately, see below

The EPIC® MH 0 dummy module is a placeholder for future expansion. All open slots in the frame must be closed with a dummy module if they are not in use.

Description	# of slots in frame	Part Number	Pack size
blind module	1	44423232	10
blind module with centering plug	1	44423233	10

### Complete the installation

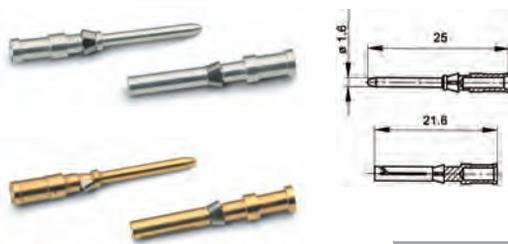


### Approvals



## 1.6 mm contacts

### Machined contacts for EPIC® MH series modules



contacts sold in bags of 100

Contact size mm <sup>2</sup>	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

**EPIC® MH BUS/MH Coax**  
2x4-position shielded module for data & signal transmission



EPIC® MH BUS module

EPIC® MH Bus PIN contact holder

EPIC® MH Coax contact holder



**Technical data**

<b>Rated voltage:</b>	50V
<b>Rated current:</b>	
- EPIC® MH Bus PIN:	10A
- EPIC® MH Coax:	16A

**Complete the installation**

	MH frames page 349
	MH Potential set: 44423265

mount in high profile housings only  
contacts sold separately, see below

**Approvals**

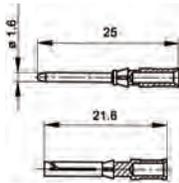


Description	Number of contacts	# of slots in frame	Plug	Receptacle	Contact size
BUS module	–	2	44423228	44423230	–
Bus PIN contact holder	4 + shield	–	44423229	44423231	1.6 mm
Coax contact holder	1	–	44423260	44423261	1.6 mm
	1	–	44423262	44423263	2.5 mm

**1.6 mm / 2.5 mm contacts**



contacts sold in bags of 100



**1.6 mm machined contacts**

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14-0.37	26-22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75-1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	5.8	5	13162400	13163400	13162900	13163900



contacts sold in bags of 100



**2.5 mm machined contacts**

Contact size		Stripping length (mm)		# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG	pin	socket		pin	socket	pin	socket
0.5	20	7.4	7.3	–	11190000	11195000	11192000	11197000
0.75-1.0	18	7.4	7.3	1	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	2	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	3	11190300	11195300	–	–
4.0	12	7.4	7.3	–	11190400	11195400	–	–

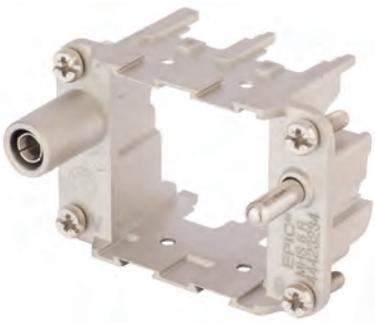
**Complete the installation**

	Crimp tool: 11147000		Crimp dies: 11147100		Locator: 11147200		Removal tool: 1.6 mm: 11161000 2.5 mm: 11182500
--	-------------------------	--	-------------------------	--	----------------------	--	---

If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH 6 multi frame

Modular frame with 2 slots



### Technical data

Temperature range:	-40°C to +125°C
Material:	die-cast zinc

### Complete the installation



MH clip:  
44423264

### Compatible housing

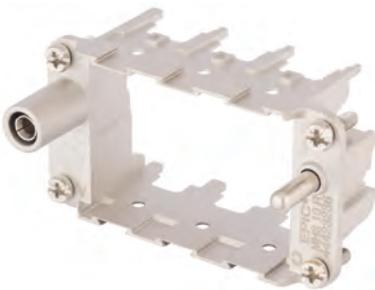


HB 6  
page 379

Part number	Description	Number of slots	Slot marking
44423234	plug	2	A, B
44423235	receptacle	2	a, b

## EPIC® MH 10 multi frame

Modular frame with 3 slots



### Technical data

Temperature range:	-40°C to +125°C
Material:	die-cast zinc

### Complete the installation



MH clip:  
44423264

### Compatible housing



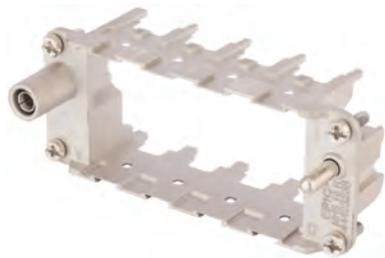
HB 10  
page 382

Part number	Description	Number of slots	Slot marking
44423236	plug	3	A, B, C
44423237	receptacle	3	a, b, c

If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

## EPIC® MH 16 multi frame

Modular frame with 4 slots



### Technical data

Temperature range: -40°C to +125°C

Material: die-cast zinc

### Complete the installation



MH clip:  
44423264

### Compatible housing

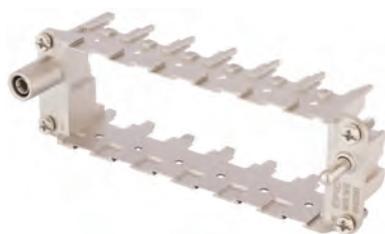


HB 16  
page 388

Part number	Description	Number of slots	Slot marking
44423238	plug	4	A, B, C, D
44423239	receptacle	4	a, b, c, d

## EPIC® MH 24 multi frame

Modular frame with 6 slots



### Technical data

Temperature range: -40°C to +125°C

Material: die-cast zinc

### Complete the installation



MH clip:  
44423264

### Compatible housing



HB 24  
page 394

Part number	Description	Number of slots	Slot marking
44423240	plug	6	A, B, C, D, E, F
44423241	receptacle	6	a, b, c, d, e, f

# EPIC® MC series

## Modular inserts for custom configurations



The EPIC® MC modular series connector can be custom-configured to meet application requirements by combining a variety of standard plug-and-play modules within various size support frames. Configurations include contacts for power and control, thermocouple contacts, data modules for PROFIBUS® and Ethernet, and pneumatic modules.

PROFIBUS® is a registered trademark of the PNO (PROFIBUS User Organization).

### Technical data

<b>Number of contacts:</b>	1 - 280 (+PE)	<b>Rated voltage:</b>	
		- UL/CSA:	100 - 600V
		- IEC:	30 - 1000V
<b>Temperature range:</b>	-40°C to +100°C	<b>Rated current:</b>	
- short-term:	up to +125°C	- UL/CSA:	4 - 82A
		- IEC:	1 - 220A
<b>Pollution level:</b>	3	<b>Wire size:</b>	
<b>Mating cycles:</b>	- per DIN EN 61984:2008 Service Life Test: Tested to 100 cycles and passed - per Contact Thermal Test: Useful service up to 500 cycles is possible at rated voltage and current*	- screw termination:	8 - 4 AWG (10 - 25 mm <sup>2</sup> )
		- crimp termination:	30 - 4/0 AWG (0.06 - 95 mm <sup>2</sup> )
		- cage clamp:	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )
		<b>Contact material:</b>	silver- or gold-plated copper alloy
		<b>Contact resistance:</b>	< 1 mΩ - < 5 mΩ

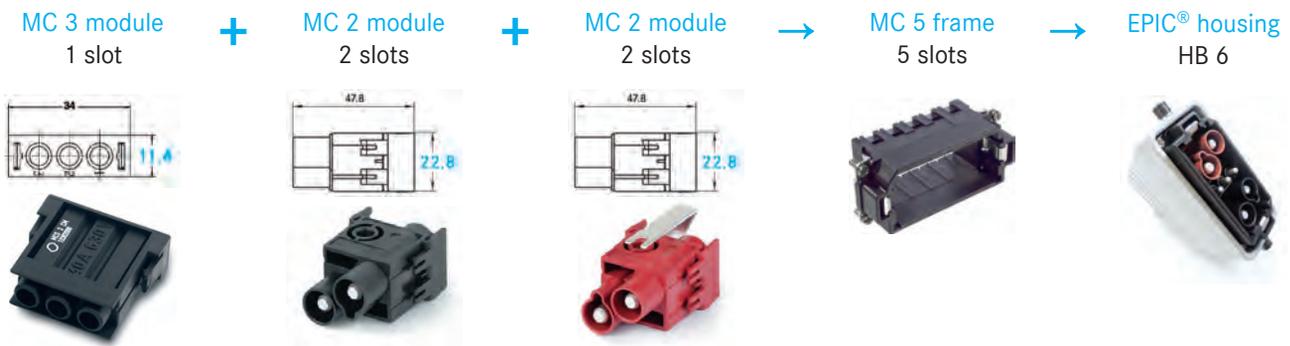
\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

### Assembly Instructions

EPIC® MC modular inserts are composed of two parts: one or more modules and a frame, which are then installed in an EPIC® housing unit.

MC modules occupy either one or two slots in an MC frame. Single-slot modules are 11.4 mm wide. Double-slot modules are 22.8 mm wide. Most modules require a removal tool to remove from the frame. EPIC® MC 2 modules can be removed manually.

#### example:



# EPIC® MC quick select

Number of contacts	Module	Description	Plug	Receptacle	Rated voltage	Rated current	Removal tool needed	Page
1	EPIC® MC HHC1	high current	44424030	44424031	1000V	220A	no	356
2	EPIC® MC HC2		44424012	44424013	1000V	65A	no	354
2	EPIC® MC HHC2	high current	44424017	44424018	1000V	150A	no	355
2	EPIC® MC 2	2 working contacts	10344100	10345100	1000V	82A	no	353
2	EPIC® MC 2	1 working contact + 1 ground	10344600	10345600	1000V	82A	no	353
3	EPIC® MC 3 Coax	coax module	10399200	10399300	250V	—	yes	357
3	EPIC® MC 3	3 contacts	10382000	10382100	630V	40A	yes	358
3	EPIC® MC 3 High Voltage	high voltage	10399800	10399900	1000V	50A	yes	359
4	EPIC® MC 4 HE	HE module	10399000	10399100	630V	25A	no	360
4+PE	EPIC® MC 4+PE High Voltage	high voltage + ground	10383200	10383300	1000V	16A	yes	361
5	EPIC® MC 5	5 contacts	10382200	10382300	400V	20A	yes	362
10	EPIC® MC 10	with machined contacts	10382400	10382500	250V	10A	yes	363
10	EPIC® MC 10	with stamped & formed contacts	10383400	10383500	250V	10A	yes	363
20	EPIC® MC 20	low voltage	10383600	10383700	100V	4A	yes	365
0	EPIC® MC Dummy	dummy module	10399400	10399500	—	—	yes	366
4	EPIC® MC Cage Clamp	cage clamp module	10399600	10399700	400V	14A	yes	366
2 + shield	EPIC® MC PROFIBUS DP	for PROFIBUS® DP	10390400	10390500	30V	1A	no	367
4 + RJ45	EPIC® MC Ethernet	RJ45 connector + 4 power contacts	10344300	10345300	600V	10A	yes	369
4 + shield	EPIC® MC Universal Bus	universal bus	10390600	10390700	30V	1A	no	367
8 + shield	EPIC® MC BUS	universal bus	10390410	10390411	50V	10A	no	368
1	EPIC® MC Pneumatic	pneumatic hose with 2.5 mm diameter	44424004	44424005	145 psi	—	yes	370
1	EPIC® MC Pneumatic	pneumatic hose with 4 mm diameter	44424006	44424007	145 psi	—	yes	370
2	EPIC® MC Pneumatic	pneumatic hose with 2.5 mm diameter	44424008	44424009	145 psi	—	yes	370
2	EPIC® MC Pneumatic	pneumatic hose with 4 mm diameter	44424010	44424011	145 psi	—	yes	370

## EPIC® MC frames

Number of modules	Plug	Receptacle	Housing	Page
2	10381000	10381100	HB 6	371
3	10381200	10381300	HB 10	371
5	10381400	10381500	HB 16	372

Number of modules	Plug	Receptacle	Housing	Page
7	10381600	10381700	HB 24	372
10	10381400 (x2)	10381500 (x2)	HB 32	373
14	10381600 (x2)	10381700 (x2)	HB 48	373

## EPIC® MC module removal tool



For removing certain EPIC® MC series modules from module mounting frames: MC 3, 4+PE, 5, 10 & 20 contact modules; dummy; cage clamp; Ethernet & pneumatic modules. Other modules can be removed manually.

Part number
11171200

### Approvals



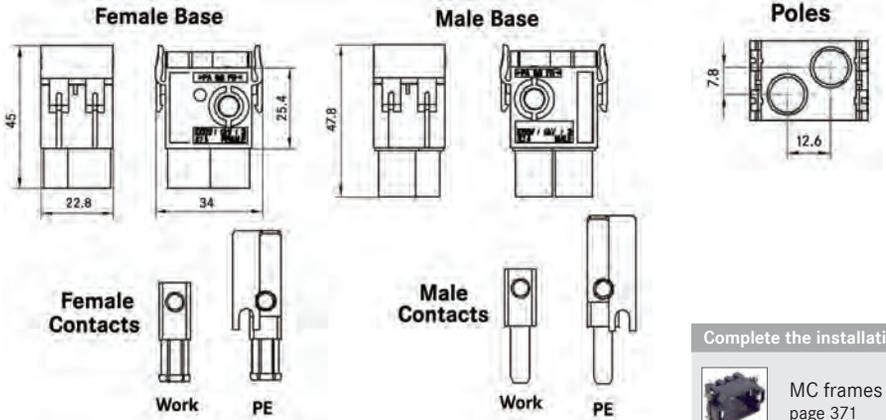
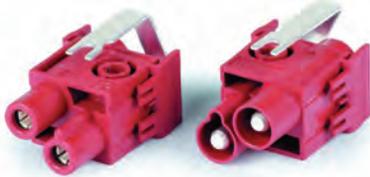
# EPIC® MC 2

## 2-position module with protected ground for high power transmission

2 working contacts



1 working contact + 1 ground



Complete the installation



MC frames  
page 371

all dimensions are in mm

### Usage notes

- Module can be inserted into the standard EPIC® modular frames
- Module can be inserted or removed from the frame without a tool, due to snap hooks
- Module takes up two slots in the modular frame
- High current modules require the usage of high profile EPIC® HB 16 & 24 housings
- Wire end ferrules are recommended for use with 6 & 8 AWG stranded wire

### Application advantage

- Screw contact modules can be wired easily with a standard screwdriver
- Flexibility of the modular series allows the arrangement of modules to fit requirements

### Approvals



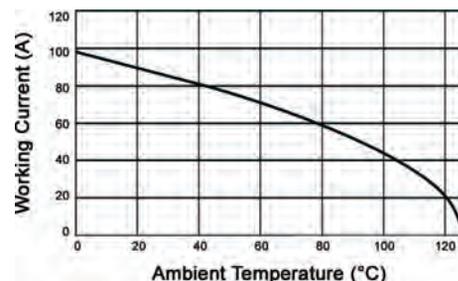
### Technical data

<b>Temperature range:</b>	-40°C to + 100°C	<b>Termination:</b>	screw
<b>Mating cycles:</b>	100 (higher mating cycles depending on the application)	<b>Wire size:</b>	8 - 4 AWG (10 - 25 mm <sup>2</sup> ) (crimped terminal ends required for 4 AWG wire)
<b>Rated voltage:</b>		<b>Contact material:</b>	brass; 2µ nickel & 2 - 3µ silver
- UL/CSA:	600V	<b>Contact resistance:</b>	1.5 - 4 mΩ
- IEC:	1000V		
<b>Rated current:</b>	82A		

Description	Wire protection	# of slots in frame	Plug	Receptacle
2 working contacts	no	2	10344100	10345100
1 working contact + 1 ground	no	2	10344600	10345600

### Derating curve

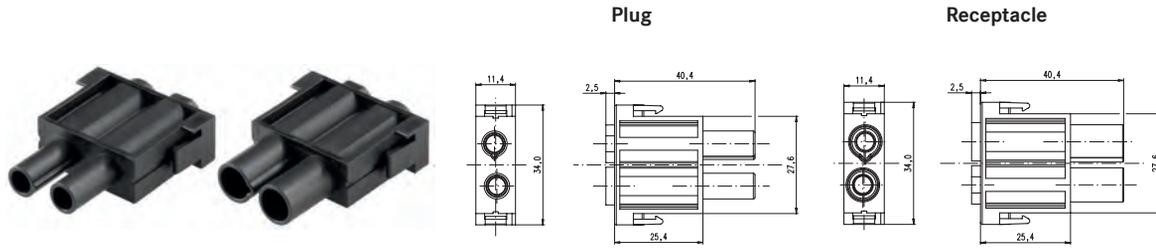
10 AWG (6 mm<sup>2</sup>)



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

EPIC® MC HC2

Compact 2-position module for high current transmission



contacts sold separately, see below

all dimensions are in mm

Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	1000V
Rated current:	65A
Wire size:	6 AWG (16 mm <sup>2</sup> )

Complete the installation



MC frames  
page 371

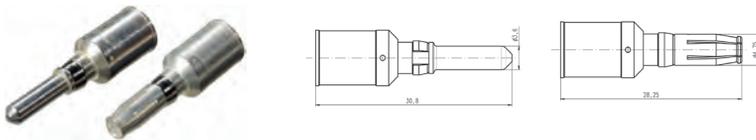
Approvals



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	44424012	44424013	3.6 mm

3.6 mm contacts 6 AWG

Machined contacts for EPIC® MC series modules



Contact size		Bag of 100 silver contacts	
mm <sup>2</sup>	AWG	pin	socket
16	6	44424014	44424015

Complete the installation



Crimp tool:  
11147000



Crimp dies:  
11147111



Locator:  
11147210

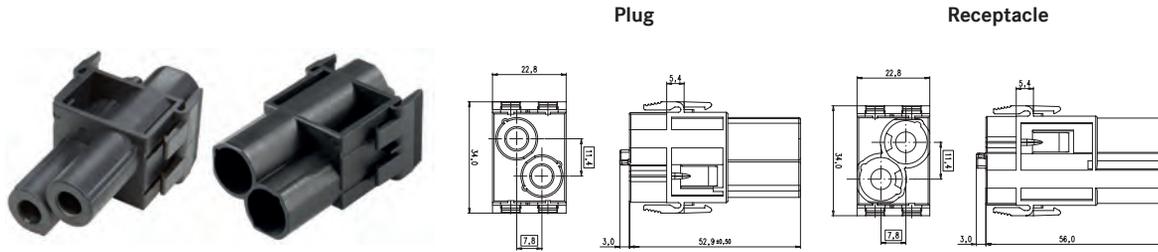


Removal tool:  
11171100

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC HHC2

2-position module for high current transmission



contacts sold separately, see below

all dimensions are in mm

Technical data	
Temperature range:	-40 °C to +125 °C
Rated voltage:	1000V
Rated current:	150A
Wire size:	6 - 1 AWG (16 - 35 mm <sup>2</sup> )

Complete the installation



MC frames  
page 371

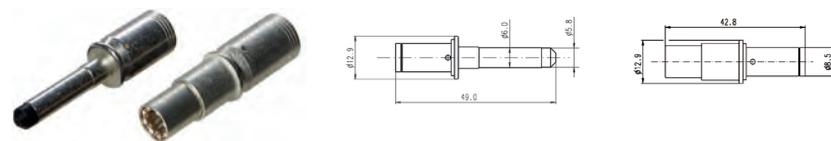
Approvals



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	2	44424017	44424018	6 mm

## 6 mm contacts

### Machined contacts for EPIC® MC series modules



Contact size		Bag of 20 silver-plated contacts		Pack size
mm <sup>2</sup>	AWG	pin	socket	
16	6	44424019	44424022	20
25	4	44424020	44424023	20
35	1	44424021	44424024	20

Complete the installation



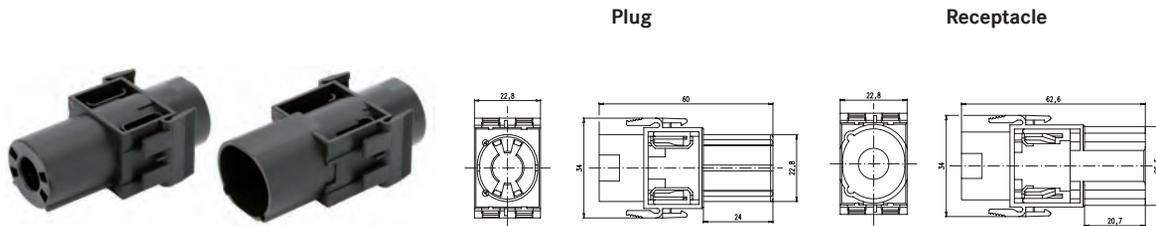
Crimp dies:  
 16 mm<sup>2</sup>: 44424025  
 25 mm<sup>2</sup>: 44424026  
 35 mm<sup>2</sup>: 44424027

use with hydraulic crimp tool Klauke type EK 60/22-L

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC HHC1

1-position module for extremely high current transmission



contacts sold separately, see below

all dimensions are in mm

### Technical data

Temperature range:	-40°C to +125°C
Rated voltage:	1000V
Rated current:	220A
Wire size:	1/0 - 4/0 AWG (50 - 95 mm <sup>2</sup> )

### Complete the installation



MC frames  
page 371

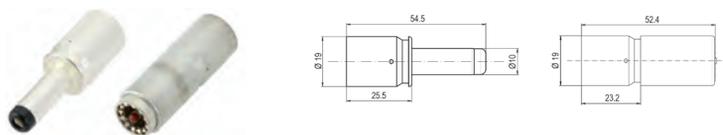
### Approvals



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	2	44424030	44424031	10 mm

## 10 mm contacts

Machined contacts for EPIC® MC series modules



Contact size		Silver-plated contacts		Pack size
mm <sup>2</sup>	AWG	pin	socket	
50	1/0	44424032	44424035	1
70	2/0	44424033	44424036	1
95	3/0	44424034	44424037	1

### Complete the installation



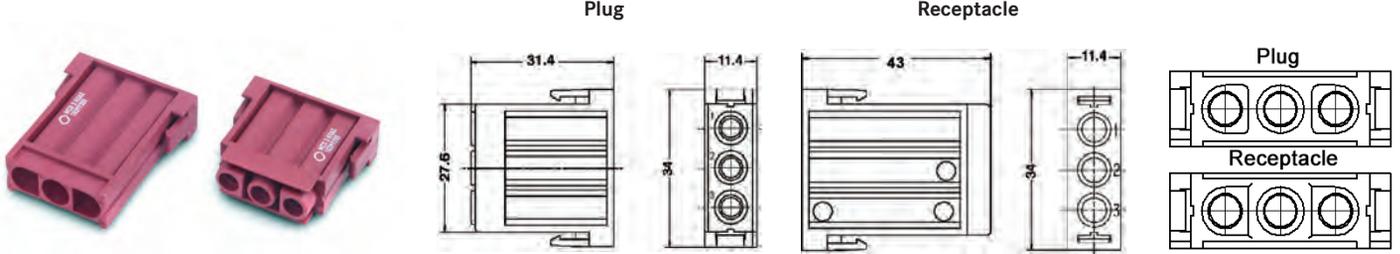
Crimp dies:	
50 mm <sup>2</sup> :	44424038
70 mm <sup>2</sup> :	44424039
95 mm <sup>2</sup> :	44424040

use with hydraulic crimp tool Klauke type EK 60/22-L

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 3 Coax

## 3-position module with coax contacts



contacts sold separately, see below

all dimensions are in mm

### Technical data

Temperature range:	-40°C to +100°C
Rated voltage:	250V

### Complete the installation



MC frames  
page 371

### Approvals



Termination	# of slots in frame	Plug	Receptacle
solder & crimp termination	1	10399200	10399300

## Coax contacts



Cable type	Impedance	Pin	Socket
<b>Solder contacts</b>			
RG58 CU	50Ω	44429018	44429017
RG180 BU	75Ω	44429020	44429019
RG187 AU	75Ω	44429022	44429021
<b>Solder/crimp contacts</b>			
RG58	50Ω	11214200	11219200

### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
11147130



Removal tool:  
11171100

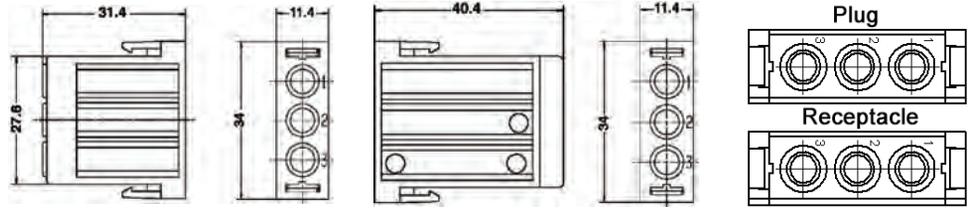
If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 3

3-position module for high current transmission

Plug

Receptacle



contacts sold separately, see below

all dimensions are in mm

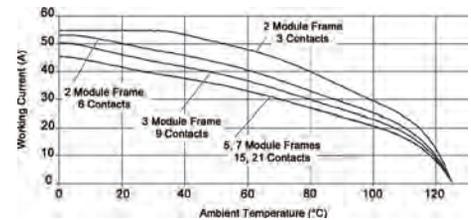
### Technical data

Temperature range:	-40°C to +100°C
Rated voltage:	630V
Rated current:	40A
Wire size:	16 - 8 AWG (1.5 - 10 mm <sup>2</sup> )

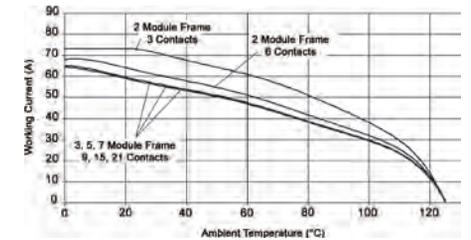
### Complete the installation

- MC frames page 371
- Module removal tool 11171200

### Derating curve 10 AWG (6 mm<sup>2</sup>)



### 8 AWG (10 mm<sup>2</sup>)



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10382000	10382100	3.6 mm

### Approvals



## 3.6 mm contacts

Machined contacts for EPIC® MC series modules



contacts sold in bags of 100

Contact size		Stripping length mm	Bag of 100 silver contacts	
mm <sup>2</sup>	AWG		pin	socket
1.5	16	10	1121070C	1121570C
2.5	14	10	1121060C	1121560C
4.0	12	10	1121000C	1121500C
6.0	10	10	1121010C	1121510C
10.0	8	10	1121020C	1121520C

### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
1.5-2.5 mm<sup>2</sup>: 11147110  
4.0-10 mm<sup>2</sup>: 11147120



Locator:  
11147210

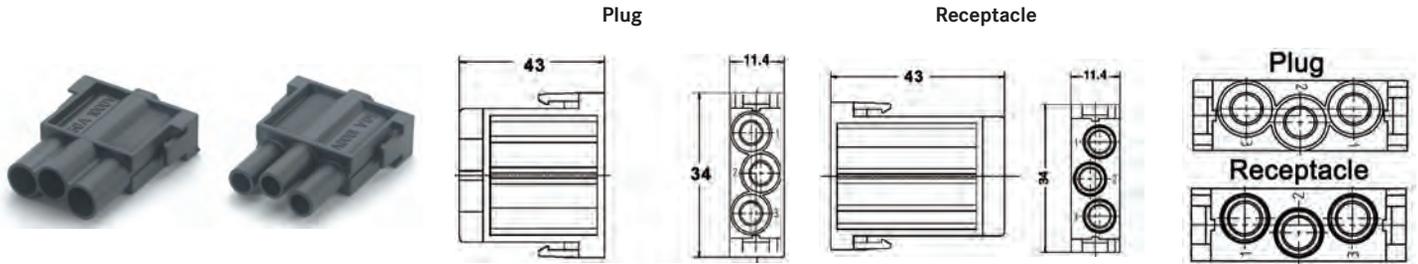


Removal tool:  
11171100

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 3 High Voltage

## 3-position module for high voltage transmission



contacts sold separately, see below

all dimensions are in mm

Technical data	
Temperature range:	-40°C to +100°C
Rated voltage:	1000V
Rated current:	50A
Wire size:	16 - 8 AWG (1.5 - 10 mm <sup>2</sup> )

Complete the installation



MC frames  
page 371

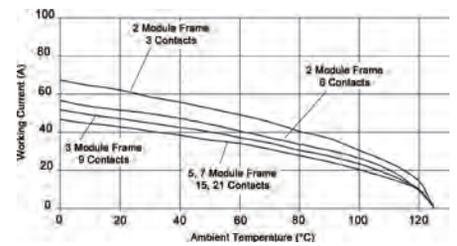
Approvals



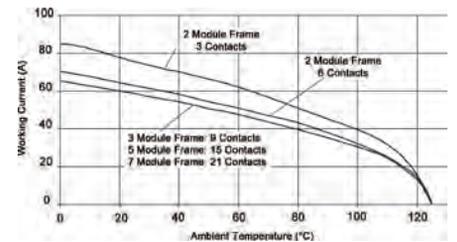
Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10399800	10399900	3.6 mm

### Derating curve

#### 10 AWG (6 mm<sup>2</sup>)



#### 8 AWG (10 mm<sup>2</sup>)



## 3.6 mm contacts

### Machined contacts for EPIC® MC series modules



contacts sold in bags of 100

Contact size		Stripping length mm	Bag of 100 silver contacts	
mm <sup>2</sup>	AWG		pin	socket
1.5	16	10	1121070C	1121570C
2.5	14	10	1121060C	1121560C
4.0	12	10	1121000C	1121500C
6.0	10	10	1121010C	1121510C
10.0	8	10	1121020C	1121520C

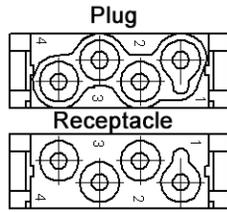
Complete the installation

 Crimp tool: 11147000	 Crimp dies: 1.5 - 2.5 mm <sup>2</sup> : 11147110 4.0 - 10 mm <sup>2</sup> : 11147120	 Locator: 11147210	 Removal tool: 11171100
---	--	--	---

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 4 HE

4-position module for medium current transmission



contacts sold separately, see below

### Technical data

Temperature range:	-40°C to +100°C
Rated voltage:	630V
Rated current:	25A
Wire size:	20 - 12 AWG (0.5 - 4 mm <sup>2</sup> )

### Complete the installation



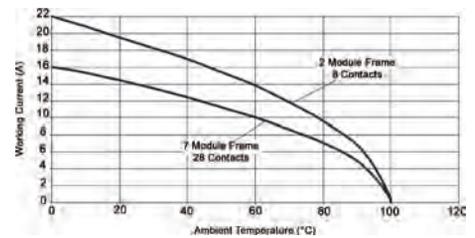
MC frames  
page 371

### Approvals

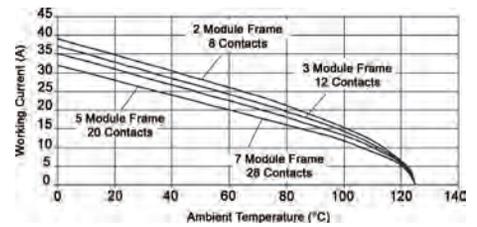


### Derating curve

14 AWG (2.5 mm<sup>2</sup>)



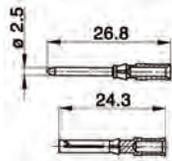
12 AWG (4 mm<sup>2</sup>)



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10399000	10399100	2.5 mm

## 2.5 mm contacts

Machined contacts for EPIC® MC series modules



Contact size	Stripping length (mm)	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts		
			mm <sup>2</sup>	AWG	pin	socket	pin
0.5	20	7.4	7.3	11190000	11195000	11192000	11197000
0.75 - 1.0	18	7.4	7.3	11190100	11195100	11192100	11197100
1.5	16	7.4	7.3	11190200	11195200	11192200	11197200
2.5	14	7.4	7.3	11190300	11195300	—	—
4.0	12	7.4	7.3	11190400	11195400	—	—

### Complete the installation



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11182500

contacts sold in bags of 100



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 4+PE High Voltage

4-position module with ground for high voltage applications



contacts sold separately, see below

### Technical data

Temperature range:	-40°C to +100°C
Rated voltage:	1000V
Rated current:	16A
Wire size:	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )

### Complete the installation

-  MC frames  
page 371
-  Module  
removal tool  
11171200

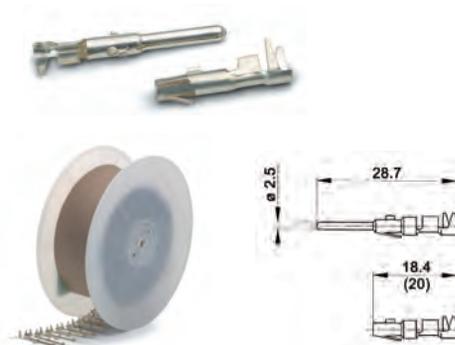
Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10383200	10383300	2.5 mm

### Approvals



## 2.5 mm contacts

### Stamped & formed contacts for EPIC® MC series modules



contacts sold in bags of 100 or 1 reel

### Complete the installation

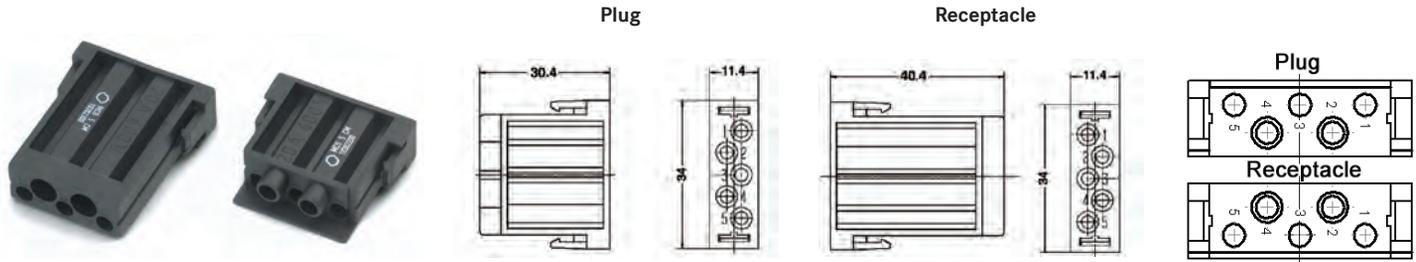
-  Crimp tool:  
11147000
-  Locator:  
11147300
-  Crimp dies:  
0.5 - 1.5 mm<sup>2</sup>: 11147180  
1.5 - 2.5 mm<sup>2</sup>: 11147190
-  Crimp tool  
for reel:  
11153500
-  Removal tool:  
11160000
-  Crimp dies for reel:  
0.5 - 1.5 mm<sup>2</sup>: 11153700  
1.5 - 2.5 mm<sup>2</sup>: 11153800

Contact size	Bag of 100 silver contacts		Reel of 100 silver contacts		Reel of 200 silver contacts			
	mm <sup>2</sup>	AWG	pin	socket	pin	socket	pin	socket
0.5 - 1.5	20 - 16		11201000	11205000	—	—	11208000	11209000
1.5 - 2.5	16 - 14		11202000	11206000	11208500	11209500	—	—

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 5

5-position module for medium current transmission



contacts sold separately, see below

all dimensions are in mm

### Technical data

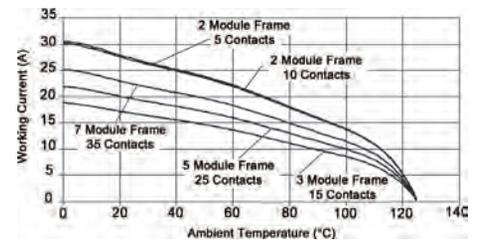
Temperature range:	-40°C to +100°C
Rated voltage:	400V
Rated current:	20A
Wire size:	20 - 12 AWG (0.5 - 4 mm <sup>2</sup> )

### Complete the installation

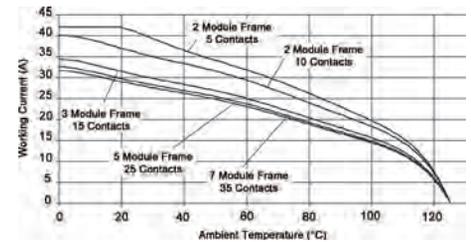
-  MC frames page 371
-  Module removal tool 11171200

### Derating curve

14 AWG (2.5 mm<sup>2</sup>)



12 AWG (4 mm<sup>2</sup>)



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10382200	10382300	2.5 mm

### Approvals



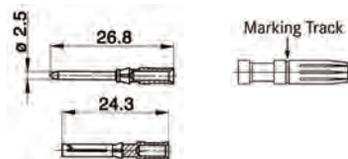
## 2.5 mm contacts

Machined contacts for EPIC® MC series modules



contacts sold in bags of 100

Contact size mm <sup>2</sup>	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts	
				pin	socket
0.5	20	7.8	—	1121300C	1121800C
0.75 - 1.0	18	7.8	1	1121310C	1121810C
1.5	16	7.8	2	1121320C	1121820C
2.5	14	7.8	3	1121330C	1121830C
4.0	12	7.8	—	1121340C	1121840C



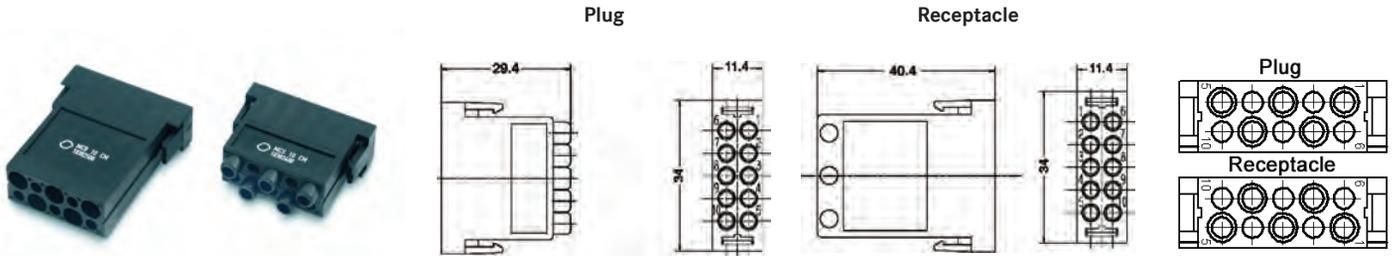
### Complete the installation

-  Crimp tool: 11147000
-  Crimp dies: 11147100
-  Locator: 11147200
-  Removal tool: 11171000

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 10

10-position module for signal transmission



contacts sold separately, see below

all dimensions are in mm

Technical data	
Temperature range:	-40°C to +100°C
Rated voltage:	400V
Rated current:	10A
Wire size:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )

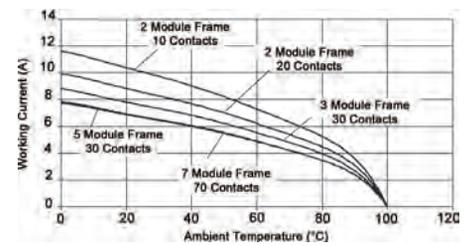
Complete the installation

- MC frames page 371
- Module removal tool 11171200

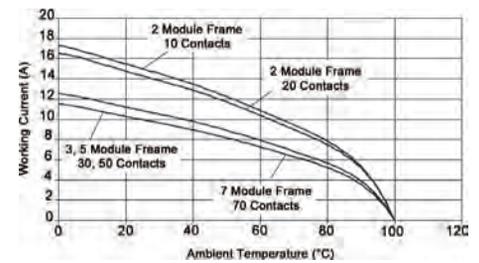
Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10382400	10382500	1.6 mm

### Derating curve

20 AWG (0.5 mm<sup>2</sup>)



### 16 AWG (1.5 mm<sup>2</sup>)



Approvals

## 1.6 mm contacts

### Machined contacts for EPIC® MC series modules



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools

- Crimp tool: 11147000
- Crimp dies: 11147100
- Locator: 11147200
- Removal tool: 11161000

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

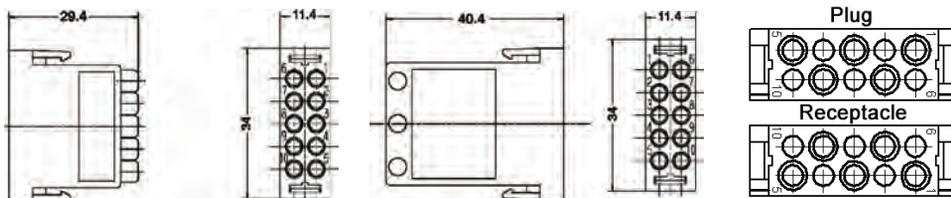
# EPIC® MC 10

10-position module for signal transmission with stamped contacts



Plug

Receptacle



contacts sold separately, see below

all dimensions are in mm

### Technical data

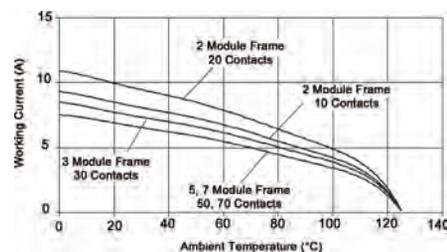
Temperature range:	-40°C to +100°C
Rated voltage:	250V
Rated current:	10A
Wire size:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )

### Complete the installation

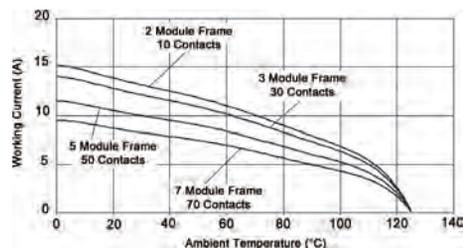
- MC frames page 371
- Module removal tool 11171200

### Derating curve

20 AWG (0.5 mm<sup>2</sup>)



16 AWG (1.5 mm<sup>2</sup>)



Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10383400	10383500	1.6 mm

### Approvals



## 1.6 mm contacts

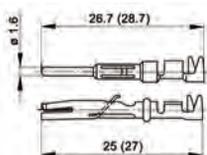
Stamped & formed contacts for EPIC® MC series modules



contacts sold in bags of 100 or 1 reel

### Contact tools

- Crimp tool: 11147000
- Locator: 11147300
- Removal tool: 11161000
- Crimp dies:  
 0.14 - 0.5 mm<sup>2</sup>: 11147170  
 0.5 - 1.5 mm<sup>2</sup>: 11147180  
 1.5 - 2.5 mm<sup>2</sup>: 11147190
- Crimp tool, die & locator:  
 0.14 - 0.5 mm<sup>2</sup>: 11147004  
 0.5 - 1.5 mm<sup>2</sup>: 11147005  
 1.5 - 2.5 mm<sup>2</sup>: 11147006



Contact size mm <sup>2</sup> AWG	Stripping length mm	Bag of 100 silver contacts		Bag of 100 gold contacts		Reel of 100 silver contacts: left-hand feed		Reel of 200 silver contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11241100	11231100	11243100	11233100	—	—	11240700	11230700
0.5 - 1.5	20 - 16	3.5 - 0.5	11221000	11236100	11221300	11238100	—	—	11220700	11235700
1.5 - 2.5	16 - 14	3.5 - 0.5	11223500	11228500	—	—	11223000	11228000	—	—

Contact size mm <sup>2</sup> AWG	Stripping length mm	Reel of 2000 silver contacts: right-hand feed		Reel of 2000 gold contacts: right-hand feed		Reel of 2000 silver contacts: left-hand feed		Reel of 2000 gold contacts: left-hand feed		
		pin	socket	pin	socket	pin	socket	pin	socket	
0.14 - 0.5	26 - 20	2.5 - 0.5	11240000	11230000	—	—	11240400	11230400	11240500	11230500
0.5 - 1.5	20 - 16	3.5 - 0.5	11220000	11235000	11220100	11235200	11226000	11226500	—	—
1.5 - 2.5	16 - 14	3.5 - 0.5	—	—	—	—	11222700	11227700	—	—

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC 20

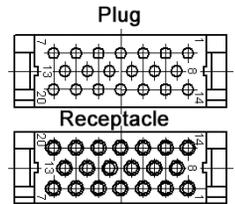
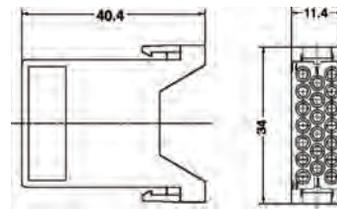
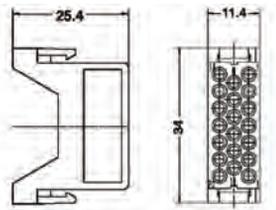
20-position module for signal transmission



contacts sold separately, see below

Plug

Receptacle



all dimensions are in mm

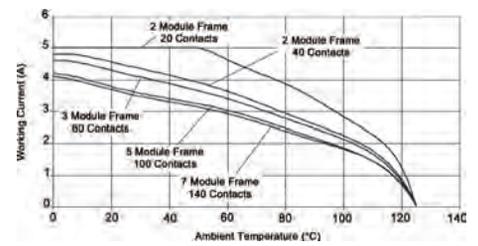
Technical data	
Temperature range:	-40°C to +100°C
Rated voltage:	100V
Rated current:	4A
Wire size:	28 - 20 AWG (0.08 - 0.56 mm <sup>2</sup> )

**Complete the installation**

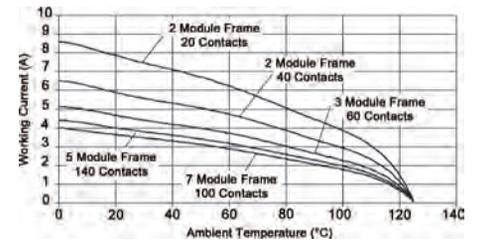
- MC frames page 371
- Module removal tool 11171200

Termination	# of slots in frame	Plug	Receptacle	Contact size
crimp termination	1	10383600	10383700	1 mm

## Derating curve 24 AWG (0.25 mm<sup>2</sup>)



## 20 AWG (0.5 mm<sup>2</sup>)



**Approvals**

## 1 mm contacts

Stamped & formed contacts for EPIC® MC series modules



Contact size		Stripping length mm	Reel of 500 gold contacts: left-hand feed	
mm <sup>2</sup>	AWG*		pin	socket
0.08-0.2	28-26	2.5 ± 0.5	44429013	44429009
0.2-0.52	26-20	2.5 ± 0.5	44429014	44429010

\* AWG conversion is approximate

**Complete the installation**

- Crimp tool: 11158400
- Removal tool: 11132500

## for thermocouple applications

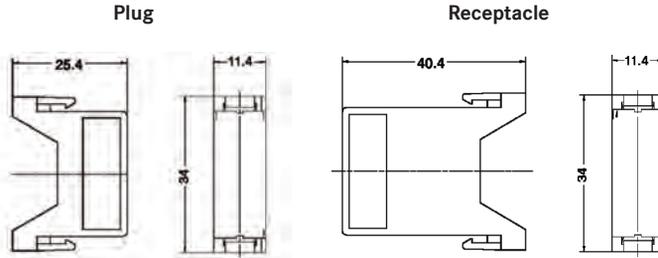


Contact size		Stripping length mm	Material	Polarity	Color	Type	Strip of 25 contacts	
mm <sup>2</sup>	AWG*						pin	socket
0.25-0.52	24-20	2.5 ± 0.5	chromel	(+)	white	type K	TC-CH-P	TC-CH-S
0.25-0.52	24-20	2.5 ± 0.5	alumel	(-)	green	type K	TC-AL-P	TC-AL-S
0.25-0.52	24-20	2.5 ± 0.5	iron	(+)	black	type J	TC-IR-P	TC-IR-S
0.25-0.52	24-20	2.5 ± 0.5	constantan	(-)	yellow	type J	TC-CO-P	TC-CO-S

\* AWG conversion is approximate

Alumel is a registered trademark of Concept Alloys, Inc.  
Photographs are not to scale and are not true representations of the products in question.  
If not otherwise specified, all values relating to the product are nominal values.

**EPIC® MC 0**  
Dummy module



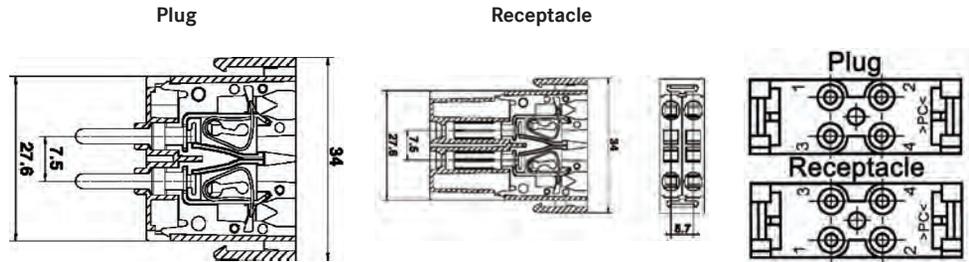
all dimensions are in mm

Termination	# of slots in frame	Plug	Receptacle
no termination	1	10399400	10399500

**Complete the installation**

- MC frames page 371
- Module removal tool 11171200

**EPIC® MC Cage Clamp**  
4-position clamp termination module



all dimensions are in mm

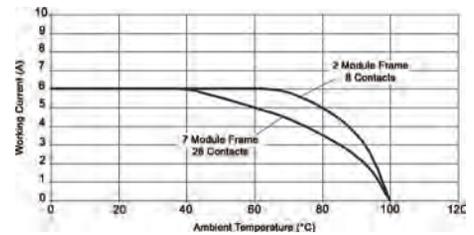
**Technical data**

Temperature range:	-40°C to +100°C
Rated voltage:	400V
Rated current:	14A
Wire size:	20 - 14 AWG (0.5 - 2.5 mm <sup>2</sup> )

**Complete the installation**

- MC frames page 371
- Module removal tool 11171200

**Derating curve**  
20 AWG (0.5 mm<sup>2</sup>)



Wire size		# of slots in frame	Plug	Receptacle
mm <sup>2</sup>	AWG			
0.5-2.5	20-14	1	10399600	10399700

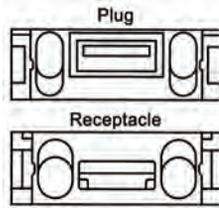
**Approvals**



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® MC PROFIBUS® DP

2 contacts + shield



mount in high profile housings only

Termination	# of slots in frame	Plug	Receptacle
screw	1	10390400	10390500

### Technical data

Temperature range:	-20°C to +85°C
Rated voltage:	30V
Rated current:	1A
Transmission rate:	12 Mbit/s

### Complete the installation



MC frames  
page 371

### Approvals



## EPIC® MC Universal Bus

4 contacts + shield



mount in high profile housings only

Termination	Wire size		# of slots in frame	Plug	Receptacle
	mm <sup>2</sup>	AWG			
screw	0.08 - 1.5	28 - 16	1	10390600	10390700

### Technical data

Temperature range:	-20°C to +85°C
Rated voltage:	30V
Rated current:	1A
Max. transfer rate:	1.5 MB/s (bus feed-through)

### Complete the installation



MC frames  
page 371

### Approvals



If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

**EPIC® MC BUS**  
8 contacts + shield



module

contact holder



contacts sold separately, see below

Complete the installation



MC frames  
page 371

Approvals



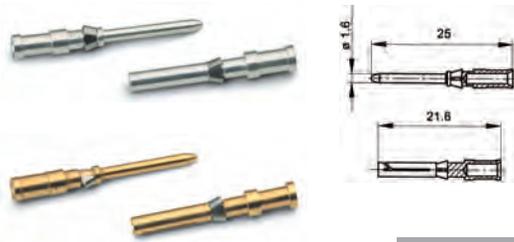
Technical data

Temperature range:	-40°C to +125°C	Wire size:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )
Rated voltage:	50V	Cable clamping range:	3 - 9 mm
Rated current:	10A	Communication rate:	1 Gbit/s

Description	Number of contacts	# of slots in frame	Plug	Receptacle	Contact size
module only	—	2	10390410	10390411	1.6 mm
contact holder	4 + shield	—	10390412	10390413	1.6 mm

1.6 mm contacts

Machined contacts for EPIC® MC series modules



contacts sold in bags of 100

Contact size		Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
mm <sup>2</sup>	AWG			pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

Contact tools



Crimp tool:  
11147000



Crimp dies:  
11147100



Locator:  
11147200



Removal tool:  
11161000

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

# EPIC® MC Ethernet

## RJ45 + 4 power contacts



contacts & RJ45 connector separately, see below

### Technical data

<b>Temperature range:</b>	-20°C to +85°C
<b>Rated voltage:</b>	600V (power contacts)
<b>Rated current:</b>	10A (power contacts)
<b>Wire size</b>	
- data contacts:	26 - 24 AWG (0.14 - 0.25 mm <sup>2</sup> )
- power contacts:	26 - 14 AWG (0.14 - 2.5 mm <sup>2</sup> )

Description	# of slots in frame	Plug	Receptacle	Contact size
module only	2	10344300	10345300	1.6 mm

### Complete the installation

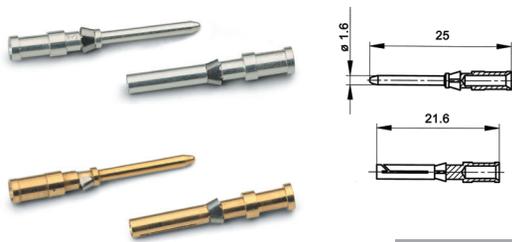
	MC frames page 371		CAT.5 RJ45 connector: CE6326
	Module removal tool 11171200		RJ45 crimp tool: CE5092

### Approvals



## 1.6 mm contacts

### Machined contacts for EPIC® series inserts



contacts sold in bags of 100

Contact size mm <sup>2</sup>	AWG	Stripping length mm	# of marking tracks	Bag of 100 silver contacts		Bag of 100 gold contacts	
				pin	socket	pin	socket
0.14 - 0.37	26 - 22	8	1	13162000	13163000	13162500	13163500
0.5	20	8	2	13162100	13163100	13162600	13163600
0.75 - 1.0	18	8	3	13162200	13163200	13162700	13163700
1.5	16	8	4	13162300	13163300	13162800	13163800
2.5	14	8	5	13162400	13163400	13162900	13163900

### Contact tools

	Crimp tool: 11147000		Crimp dies: 11147100		Locator: 11147200		Removal tool: 11161000
---	-------------------------	---	-------------------------	---	----------------------	---	---------------------------

If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

## EPIC® MC Pneumatic

Pneumatic modules for 1 or 2 hoses



These modules are used for easy and fast connection of compressed air hoses. Applications include machine building, mini pneumatics, measurement, and control technology.

### Application advantage

- For compressed air hoses with inner diameters of 2.5 mm or 4 mm and a maximum outer diameter of 8 mm.
- Typically used with 4 x 2.5 mm or 6 x 4 mm metric tubing.
- Receptacles include built-in valve.

### Technical data

<b>Number of ports:</b>	1, 2
<b>Max. air pressure:</b>	10 bar (145 psi)
<b>Temperature range:</b>	-20°C to +100°C
<b>Mechanical mating cycles:</b>	100

### Complete the installation



MC frames  
page 371



Module  
removal tool  
11171200

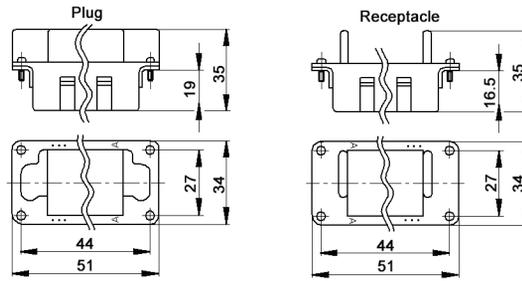
### Approvals



Hose inner diameter	# of slots in frame	1 port		2 ports	
		plug	receptacle	plug	receptacle
2.5 mm	1	44424004	44424005	44424008	44424009
4.0 mm	1	44424006	44424007	44424010	44424011

## EPIC® MC 2 module frame

### Modular frame with 2 positions



all dimensions are in mm

Positions	Plug	Receptacle
2	10381000	10381100

#### Compatible housing



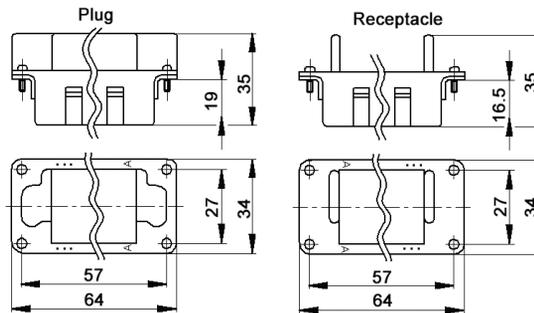
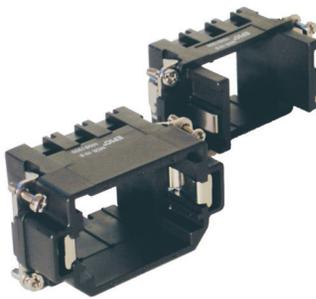
HB 6  
page 379

#### Approvals



## EPIC® MC 3 module frame

### Modular frame with 3 positions



all dimensions are in mm

Positions	Plug	Receptacle
3	10381200	10381300

#### Compatible housing



HB 10  
page 382

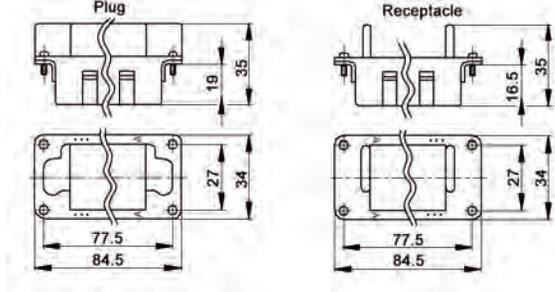
#### Approvals



If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

## EPIC® MC 5 module frame

Modular frame with 5 positions



all dimensions are in mm

Positions	Plug	Receptacle
5	10381400	10381500

Compatible housing



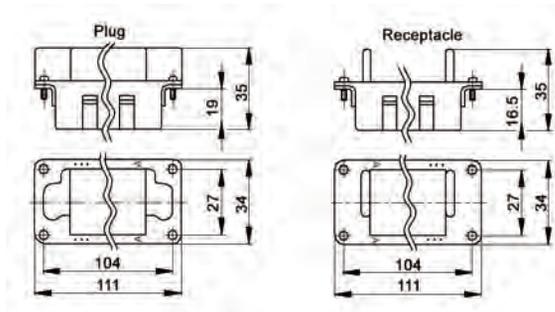
HB 16  
page 388

### Approvals



## EPIC® MC 7 module frame

Modular frame with 7 positions



all dimensions are in mm

Positions	Plug	Receptacle
7	10381600	10381700

Compatible housing



HB 24  
page 394

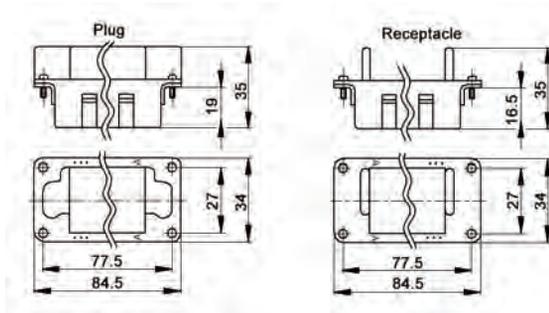
### Approvals



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.

## EPIC® MC 10 module frame

### Modular frames with 10 positions



all dimensions are in mm

Positions	Plug	Receptacle
5 x2	10381400 (x2)	10381500 (x2)

x2 MC 5 frames, order two frames

#### Compatible housing



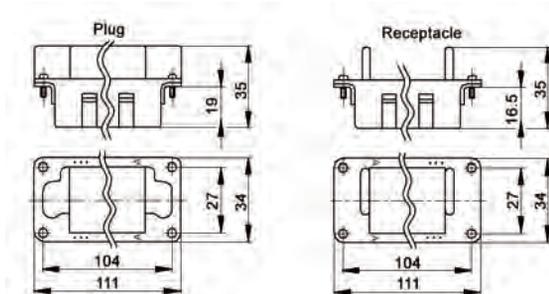
HB 32  
page 400

#### Approvals



## EPIC® MC 14 module frame

### Modular frames with 14 positions



all dimensions are in mm

Positions	Plug	Receptacle
7 x2	10381600 (x2)	10381700 (x2)

x2 MC 7 frames, order two frames

#### Compatible housing



HB 48  
page 402

#### Approvals



If not otherwise specified, all values relating to the product are nominal values.  
Photographs are not to scale and are not true representations of the products in question.

# EPIC® Power K series

Screw-terminated inserts for combination power & control applications



EPIC® Power K series inserts provide a combination of power contacts (up to 80A) and signal contacts (up to 16A) in a single insert package. This can save valuable panel space by allowing one connector to do the job of two. These inserts fit into EPIC® HB series housings.

### Technical data

**Number of contacts:** 4 power + 0, 2, 8 signal

**Temperature range:** -40°C to +125°C

**Pollution level:** 3

**Rated voltage:**

- UL/CSA:
- power: 830V
- signal: 400V

**Test voltage:**

- 4 power + 0 signal: 6 kV
- 4 power + 2 signal: 6 kV / 4 kV
- 4 power + 8 signal: 4 kV

**Rated current:**

- 4 power + 0 signal: 80A; 830V
- 4 power + 2 signal: 80A, 16A; 830/400V
- 4 power + 8 signal: 80A, 16A; 400V

**Wire size:**

- screw termination:
- power contacts: 16 - 6 AWG (1.5 - 16 mm<sup>2</sup>)
- signal contacts: 20 - 14 AWG (0.5 - 2.5 mm<sup>2</sup>)

**Material:**

- molding: fiberglass-reinforced thermoplastic resin
- contacts: hard silver-plated copper alloy

**Contact resistance:**

- principal contacts: < 0.3 mΩ
- auxiliary contacts: < 1 mΩ

**Approvals:**

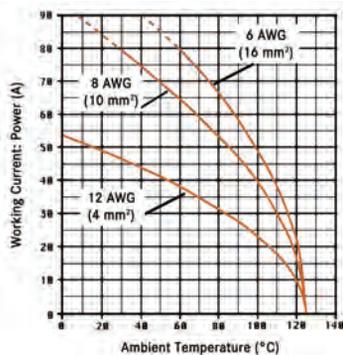
- UL: File #E115072  
File #E75770
- CSA: File #LR82270

\* In dry, non-conductive, non-corrosive environments when protected in a housing rated at least IP54 and disconnected for cycling and maintenance only.

## EPIC® Power K derating curves

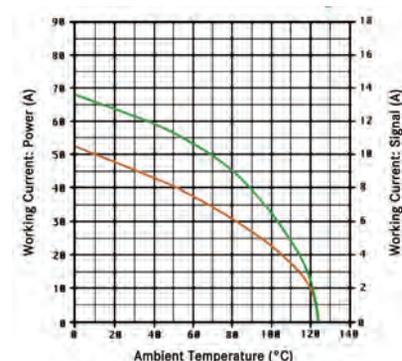
**EPIC® Power K 4/0**

12 - 6 AWG (4 - 16 mm<sup>2</sup>) power  
0 signal



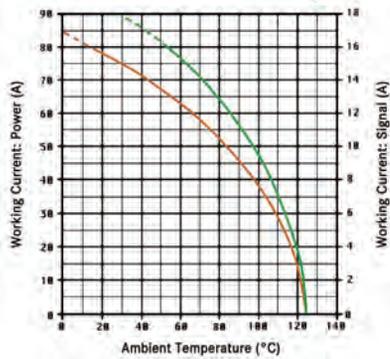
**EPIC® Power K 4/2**

12 AWG (4 mm<sup>2</sup>) power  
18 AWG (1 mm<sup>2</sup>) signal

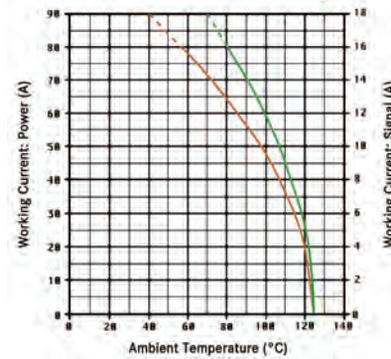


# EPIC® Power K derating curves

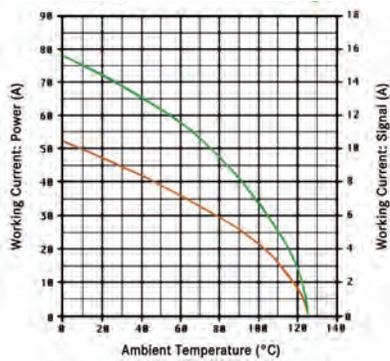
EPIC® Power K 4/2  
 8 AWG (10 mm<sup>2</sup>) power  
 16 AWG (1.5 mm<sup>2</sup>) signal



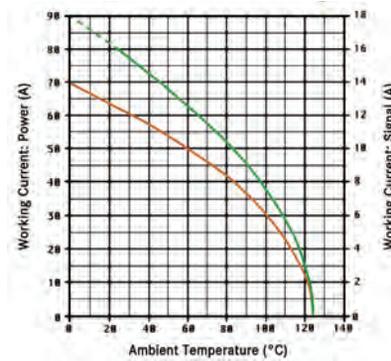
EPIC® Power K 4/2  
 6 AWG (10 mm<sup>2</sup>) power  
 14 AWG (2.5 mm<sup>2</sup>) signal



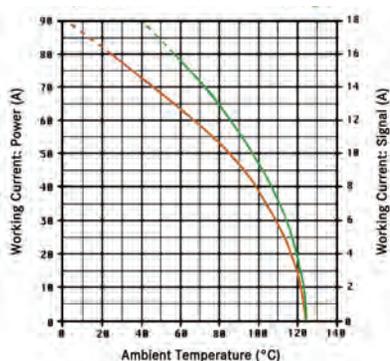
EPIC® Power K 4/8  
 12 AWG (4 mm<sup>2</sup>) power  
 18 AWG (1 mm<sup>2</sup>) signal



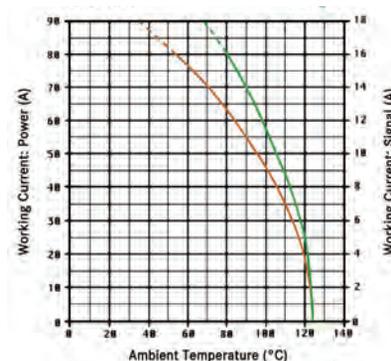
EPIC® Power K 4/8  
 10 AWG (6 mm<sup>2</sup>) power  
 18 AWG (1 mm<sup>2</sup>) signal



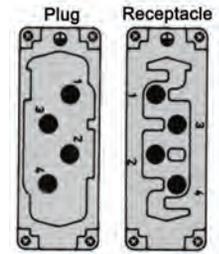
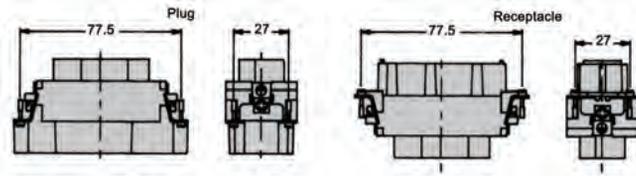
EPIC® Power K 4/8  
 8 AWG (10 mm<sup>2</sup>) power  
 16 AWG (1.5 mm<sup>2</sup>) signal



EPIC® Power K 4/8  
 6 AWG (16 mm<sup>2</sup>) power  
 14 AWG (2.5 mm<sup>2</sup>) signal



**EPIC® Power K 4/0**  
4 power + 0 signal contacts



all dimensions are in mm

view from cable side

Description	Plug	Receptacle
4/0	44424041	44424042

Compatible housing

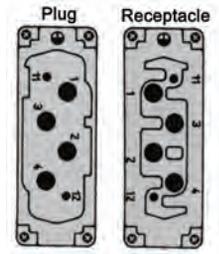
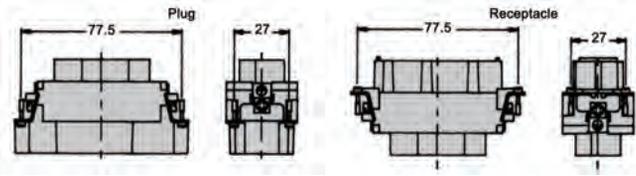


HB 16  
page 388

Approvals



**EPIC® Power K 4/2**  
4 power + 2 signal contacts



all dimensions are in mm

view from cable side

Description	Plug	Receptacle
4/2	44424043	44424044

Compatible housing

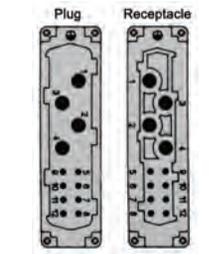
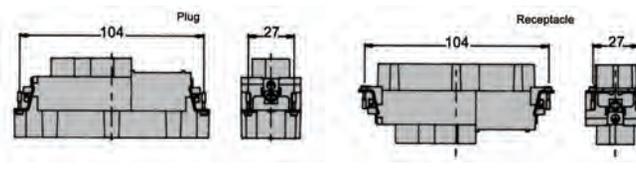


HB 16  
page 388

Approvals



**EPIC® Power K 4/8**  
4 power + 8 signal contacts



all dimensions are in mm

view from cable side

Description	Plug	Receptacle
4/8	11/2408	11/1408

Compatible housing



HB 24  
page 394

Approvals



If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.