

heavy | mate[®]

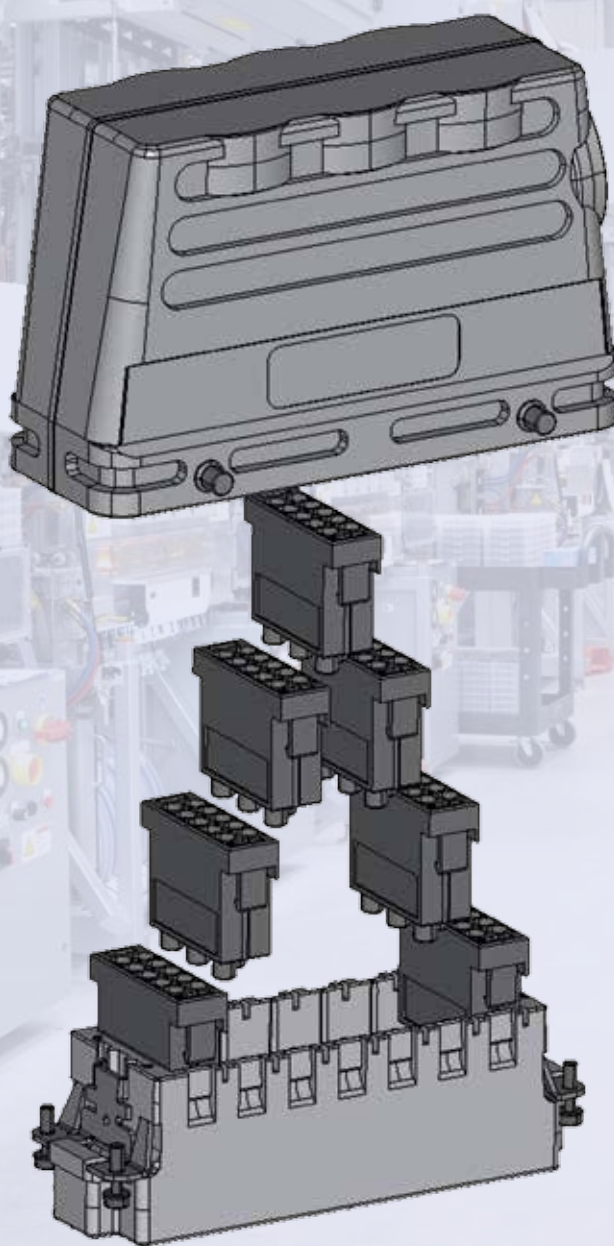
Heavy Duty Connectors
Core Programme



Modular system

With the new series heavy|mate® F Amphenol offers a new modular system that is compatible with the market leader. With the series heavy|mate® M Amphenol offers a system with many benefits:

- More module slots in the connector
- Large selection of contact-safe male contacts
- Stamped contacts and the Radsok contact technology
- Great cost savings potential

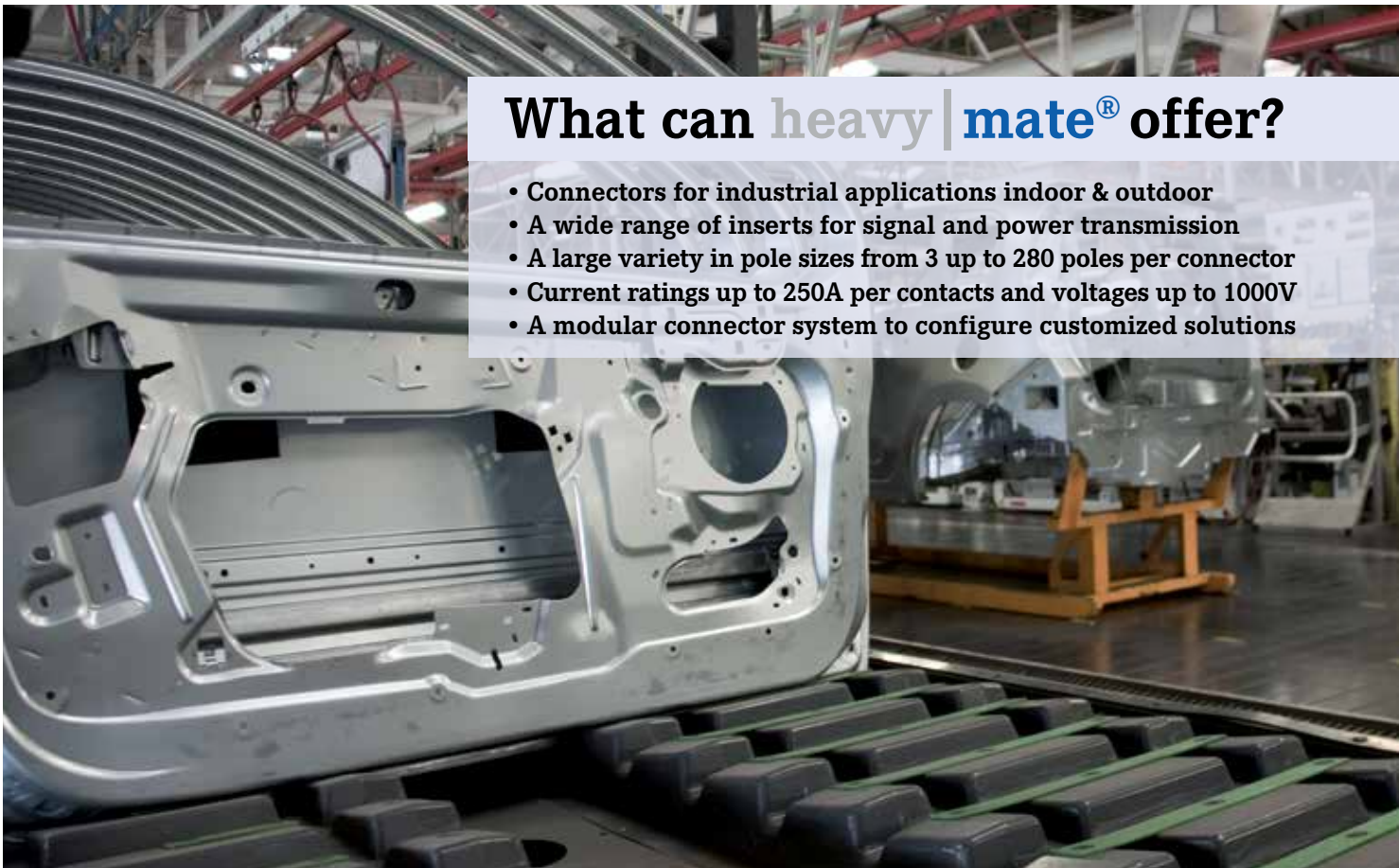


for Applications in Industrial Environments.



Major product features

- Hybrid interconnections
- Good costs
- Voltage up to 1000V
- VDE, UL, CSA approvals
- Vibration proof
- High current
- Signal transmission
- High pole sizes
- IP65 to IP68
- Corrosion resistance
- Robust



What can heavy | **mate**[®] offer?

- Connectors for industrial applications indoor & outdoor
- A wide range of inserts for signal and power transmission
- A large variety in pole sizes from 3 up to 280 poles per connector
- Current ratings up to 250A per contacts and voltages up to 1000V
- A modular connector system to configure customized solutions

Make your selection out of the heavy | mate® series!

Quick Product Selector

Following products can be found in our main catalogue.

Series Characteristic	A page 14	D page 22	DD page 38	E page 44	EE page 62	E / FE / KO page 68	F page 74
Voltage							
250V	●	●	●	●	●	●	●
400V	●			●	●	●	●
500V				●	●		●
690V							●
830V							●
1000V							●
Current							
10A	●	●	●	●	●	●	●
16A	●			●	●		●
35A							●
80A							●
100A							●
200A							
Numbers of contacts				Modules for			
	3	7	24	6	10	6	2
	4	8	42	10	18	10	3
	10	15	72	16	32	16	4
	16	25	108	24	46	24	6
		40					2x4
		64					8
							12
							17
							20
Termination							
Crimp		●	●	●	●		●
Screw	●			●		●	
Tension spring				●			

Cross reference list see www.amphenol.de/xref/

HSE page 104	HvE page 108	K page 118	M page 126	Q page 168	Housings page 184	Accessories page 246	Series Characteristic
Voltage							
●	●	●	●	●			250V
●	●	●	●	●			400V
	●	●	●	●			500V
	●	●	●	●			690V
		●	●				830V
			●				1000V
Current							
●	●	●	●	●			10A
●	●	●	●	●			16A
●		●	●	●			35A
		●	●				80A
			●				100A
			●				200A
Modules for				Numbers of contacts			
6	3+2 6+2 10+2 16+2	4 / 0 4 / 2 6 / 36 4 / 8	1 2 3 4 5 10 20	5 4/2 7 8 12 17			
Termination							
		●	●	●			Crimp
●	●	●					Screw
							Tension spring

Overview - heavy | mate® Core Programme

Series	heavy mate A				heavy mate D							
Number of contacts / modules	3/4+PE	10+PE	16+PE	32+PE	7+PE/8	15+PE	25+PE	40+PE	50+PE	64+PE	128+PE	
Termination technique	screw				crimp							
Wire gauge in mm ²	0,25 - 2,5				0,14 - 2,5							
Flammability (UL94)	V - 0				V - 0							
Approvals	UL, CSA				UL, CSA							
Rated Voltage (VDE) in V	400	250			250							
Rated Voltage (UL, CSA) in V	600				600							
Rated Current (Tu=40°C) in A	32	28	25		19	16	14		13		11	
Temperature range	-40 / +125°C				-40 / +125°C							

Series	heavy mate Q				heavy mate F modules		
Number of contacts / modules	5+PE	4/2+PE	8+PE	17+PE	2	3	4
Termination technique	crimp				crimp		
Wire gauge in mm ²	0,5 - 4,0	1,5 - 6,0	0,5 - 4,0	0,14 - 2,5	10 - 35	1,5 - 6,0	1,5 - 6,0
Flammability (UL94)	V - 0				V - 0		
Approvals	UL, CSA				UL, CSA		
Rated Voltage (VDE) in V	230 ¹⁾ 400 ²⁾	Power: 400 ¹⁾ 690 ²⁾ Signal: 250	500	250	1000	400 ¹⁾ 690 ²⁾	830
Rated Voltage (UL, CSA) in V	-	-	-	-	-	-	-
Rated Current (Tu=40°C) in A	29	40/10	22	11	100	38	34
Temperature range	-40 / +125°C				-40 / +125°C		

Series	heavy mate M modules				
Number of contacts / modules	1	2 Radsok	2 Power	3	3
Termination technique	crimp				
Wire gauge in mm ²	50/70/95	16/25/35	16	1,5 - 10	1,5 - 10
Flammability (UL94)	V - 0				
Approvals	UL, CSA, SEV, VDE				
Rated Voltage (VDE) in V	1000	1000	1000	1000	630
Rated Voltage (UL, CSA) in V	-	-	-	1000	630
Rated Current (Tu=40°C) in A	230	150	85	70	70
Temperature range	-40 / +125°C				

heavy mate DD				heavy mate E					heavy mate EE				heavy mate K	
24+PE	42+PE	72+PE	108+PE	6+PE	10+PE	16+PE	24+PE	48+PE	10+PE	18+PE	32+PE	46+PE	4/2	6/36 + PE
crimp				crimp / screw					crimp				screw	crimp
0,14 - 2,5				0,5 - 4,0 / 0,25 - 2,5					0,5 - 4,0				1,5 - 16	1,5 - 6,0 / 0,14 - 2,5
V - 0				V - 0					V - 0				V - 0	
UL, CSA				UL, CSA, DB					UL, CSA				UL, CSA	
250				500					500				830 / 400	690 / 160
600				600					600				-	-
9		8		27	25	24	23	20	24	27	23	23	80/16	40/10
-40 / +125°C				-40 / +125°C					-40 / +125°C				-40 / +125°C	

6	8	12	17	20	Shielded module 2x4	Blind module
crimp						-
0,5 - 4,0		0,14 - 2,5	0,14 - 2,5	0,5 - 4,0	0,14 - 2,5	-
V - 0						
UL, CSA						
500	400	250 ¹⁾ 400 ²⁾	160	500	50	0
-	-	-	-	-	-	-
22	18	13	12	23	-	-
-40 / +125°C						













4+PE / 5	5	10 (stamped)	10 (turned)	20	3 Coax	RJ45 + 4
crimp					crimp/solder	mate/crimp
0,5 - 4,0	0,5 - 4,0	0,14 - 2,5	0,14 - 2,5	0,09 - 0,5		- / 0,14 - 0,25
V - 0						
UL, CSA, SEV, VDE						
1000	400	400	400	63	250	125 / 400
1000	400	250	250	63	250	125 / 400
23	36	13	14	7		1,5 / 13
-40 / +125°C						-20 / +80°C

heavy|mate® A Contact Inserts

Male Insert	Female Insert	Male Insert	Female Insert
Contact Insert 3+PE 400V / 10A		Contact Insert 4+PE 400V / 10A	
C146 10A003 002 4 	C146 10B003 002 4 	C146 10A004 002 4 	C146 10B004 002 4 
Contact Insert 10+PE 250V / 16A		Contact Insert 16+PE 250V / 16A	
C146 10A010 002 4 C146 10A010 102 4 	C146 10B010 002 4 C146 10B010 102 4 	C146 10A016 002 4 C146 10A016 102 4 	C146 10B016 002 4 C146 10B016 102 4 







Comment: All contact inserts for screw termination
 C146 ... 002 4 without wire protection
 C146 ... 102 4 with wire protection

heavy|mate® D Contact Inserts - 250V/10A

Male Insert	Female Insert	Male Insert	Female Insert
Contact Insert 7+PE		Contact Insert 8+PE	
C146 10A007 000 2 C146 10A007 500 2 	C146 10B007 000 2 C146 10B007 500 2 	C146 10A008 000 2 C146 10A008 500 2 	C146 10B008 000 2 C146 10B008 500 2 
Contact Insert 15+PE		Contact Insert 25+PE	
C146 10A015 000 2 C146 10A015 500 2 	C146 10B015 000 2 C146 10B015 500 2 	C146 10A025 000 2 C146 10A025 500 2 	C146 10B025 000 2 C146 10B025 500 2 
Contact Insert 40+PE		Contact Insert 64+PE	
C146 10A040 000 2 C146 10A040 500 2 	C146 10B040 000 2 C146 10B040 500 2 	C146 10A064 000 2 C146 10A064 500 2 	C146 10B064 000 2 C146 10B064 500 2 

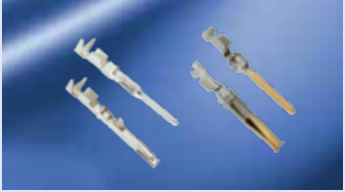


Comment: All contact inserts for crimp termination
 C146 ... 000 2 use stamped crimp contacts
 C146 ... 500 2 use turned crimp contacts




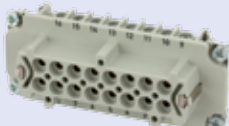

heavy|mate® DD Contact Inserts - 250V/10A

Male Insert		Female Insert		Male Insert		Female Insert	
Contact Insert 24+PE				Contact Insert 42+PE			
C146 10A024 000 9		C146 10B024 000 9		C146 10A042 000 9		C146 10B042 000 9	
							
Contact Insert 72+PE				Contact Insert 108+PE			
C146 10A072 000 9		C146 10B072 000 9		C146 10A108 000 9		C146 10B108 000 9	
							

Comment: All contact inserts for crimp termination with turned crimp contacts

heavy|mate® D / DD Crimp Contacts

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Male contact	Female contact	
Stamped 1.6 mm single crimp contacts						
silver plating standard	0.14 - 0.5 mm ²	26 - 20	100	VN01 016 0003 1	VN02 016 0003 1	
	0.5 - 1.5 mm ²	20 - 16	100	VN01 016 0002 1	VN02 016 0002 1	
	1.5 - 2.5 mm ²	16 - 14	100	VN01 016 0005 1	VN02 016 0005 1	
silver plating high current	0.5 - 1.5 mm ²	20 - 16	100	VN01 016 0015 1	VN02 016 0015 1	
	1.5 - 2.5 mm ²	16 - 14	100	VN01 016 0016 1	VN02 016 0016 1	
Stamped 1.6 mm contacts on reel for crimp machines contact feeding left hand side						
silver plating standard	0.14 - 0.5 mm ²	26 - 20	2000	TN01 016 0003 1	TN02 016 0003 1	
	0.5 - 1.5 mm ²	20 - 16	2000	TN01 016 0002 1	TN02 016 0002 1	
	1.5 - 2.5 mm ²	16 - 14	2000	TN01 016 0005 1	TN02 016 0005 1	
silver plating high current	0.5 - 1.5 mm ²	20 - 16	2000	TN01 016 0015 1	TN02 016 0015 1	
	1.5 - 2.5 mm ²	18 - 14	2000	TN01 016 0016 1	TN02 016 0016 1	
Turned 1.6 mm single crimp contacts						
silver plating	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C	
	0.5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C	
	0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C	
	1.5 mm ²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C	
	2.5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C	


Male Insert	Female Insert	Male Insert	Female Insert
Contact Insert 6+PE		Contact Insert 10+PE	
C146 10A006 102 1 C146 10A006 400 1 C146 10A006 500 1	C146 10B006 102 1 C146 10B006 400 1 C146 10B006 500 1	C146 10A010 102 1 C146 10A010 400 1 C146 10A010 500 1	C146 10B010 102 1 C146 10B010 400 1 C146 10B010 500 1
			
Contact Insert 16+PE		Contact Insert 24+PE	
C146 10A016 102 1 C146 10A016 400 1 C146 10A016 500 1	C146 10B016 102 1 C146 10B016 400 1 C146 10B016 500 1	C146 10A024 102 1 C146 10A024 400 1 C146 10A024 500 1	C146 10B024 102 1 C146 10B024 400 1 C146 10B024 500 1
			

Comment: C146 ... 102 1 use screw contacts and wire protection
 C146 ... 400 1 use tension spring
 C146 ... 500 1 use turned crimp contacts

Male Insert	Female Insert	Male Insert	Female Insert
Contact Insert 10+PE		Contact Insert 18+PE	
C146 10A010 500 10	C146 10B010 500 10	C146 10A018 500 10	C146 10B018 500 10
			
Contact Insert 32+PE		Contact Insert 46+PE	
C146 10A032 500 10	C146 10B032 500 10	C146 10A046 500 10	C146 10B046 500 10
			

Comment: All contact inserts for crimp termination with turned crimp contacts

heavy|mate® E / EE Crimp Contacts

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Male contact	Female contact	
Turned 2.5mm single crimp contacts						
silver plating	0.5 mm ²	20	100	VN01 025 0035 1C	VN02 025 0035 1C	
	0.75 - 1.0 mm ²	18	100	VN01 025 0036 1C	VN02 025 0036 1C	
	1.5 mm ²	16	100	VN01 025 0037 1C	VN02 025 0037 1C	
	2.5 mm ²	14	100	VN01 025 0038 1C	VN02 025 0038 1C	
	4.0 mm ²	12	100	VN01 025 0039 1C	VN02 025 0039 1C	
gold plating	0.5 mm ²	20	100	VN01 025 0035 2C	VN02 025 0035 2C	
	0.75 - 1.0 mm ²	18	100	VN01 025 0036 2C	VN02 025 0036 2C	
	1.5 mm ²	16	100	VN01 025 0037 2C	VN02 025 0037 2C	
	2.5 mm ²	14	100	VN01 025 0038 2C	VN02 025 0038 2C	
	4.0 mm ²	12	100	VN01 025 0039 2C	VN02 025 0039 2C	

heavy|mate® K Contact Inserts

further versions can be found in the main catalogue

Male Insert	Female Insert	Male Insert	Female Insert
Contact Insert 4/2+PE - 830/400V / 80/16A		Contact Insert 6/36+PE - 690/160V / 40/10A	
C146 10A006 100 13	C146 10B006 100 13	C146 10A042 500 13	C146 10B042 500 13
			

Comment: 4/2+PE has contacts included
6/36+PE use turned crimp contacts

heavy|mate® K Crimp Contacts

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Male contact	Female contact	
Turned 1.6 mm single crimp contacts						
silver plating	0,14 - 0,37 mm ²	26-22	100	VN01 016 0024 1C	VN02 016 0024 1C	
	0,5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C	
	0,75 - 1,0 mm ²	20-16	100	VN01 016 0026 1C	VN02 016 0026 1C	
	1,5 mm ²	16-15	100	VN01 016 0027 1C	VN02 016 0027 1C	
	2,5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C	
Turned 4 mm single crimp contacts						
silver plating	1,5 mm ²	16	100	VN01 040 0010 1C	VN02 040 0010 1C	
	2,5 mm ²	14	100	VN01 040 0011 1C	VN02 040 0011 1C	
	4 mm ²	12	100	VN01 040 0012 1C	VN02 040 0012 1C	
	6 mm ²	10	100	VN01 040 0013 1C	VN02 040 0013 1C	

heavy|mate® Q Contact Inserts

further versions can be found in the main catalogue

Male Insert	Female Insert	Male Insert	Female Insert
Contact Insert 5+PE		Contact Insert 4/2+PE	
C146 10A005 500 12	C146 10B005 500 12	C146 10A006 500 12	C146 10B006 500 12
			
Contact Insert 8+PE - 500V/16A		Contact Insert 17+PE - 250V/10A	
C146 10A008 500 12	C146 10B008 500 12	C146 10A017 500 12	C146 10B017 500 12
			

Comment: 4/2+PE; 8+PE & 17+PE use special housings - see below

5+PE uses turned 2.5mm contacts

4/2+PE uses turned 1.6mm and 4.0mm contacts

8+PE uses turned 2.5mm contacts

17+PE uses turned 1.6mm contacts

heavy|mate® Q Housings | Special Size | Series Q 4/2; 8; 12; 17

Description	M	Part Number	Drawing	Figure
Hoods				
Hood top entry	25	C146 10R008 606 12		
Housings				
Housing bulkhead mounting		C146 10F008 001 12		

heavy|mate® Q Crimp Contacts

Supplied as	for wire gauge	AWG	Pieces	Part Number		Figure
				Male contact	Female contact	
Turned 1.6 mm single crimp contacts						
silver plating	0,14 - 0,37 mm ²	26-22	100	VN01 016 0024 1C	VN02 016 0024 1C	
	0,5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C	
	0,75 - 1,0 mm ²	20-16	100	VN01 016 0026 1C	VN02 016 0026 1C	
	1,5 mm ²	16-15	100	VN01 016 0027 1C	VN02 016 0027 1C	
	2,5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C	
Turned 2.5 mm single crimp contacts						
silver plating	0.5 mm ²	20	100	VN01 025 0035 1C	VN02 025 0035 1C	
	0.75 - 1.0 mm ²	18	100	VN01 025 0036 1C	VN02 025 0036 1C	
	1.5 mm ²	16	100	VN01 025 0037 1C	VN02 025 0037 1C	
	2.5 mm ²	14	100	VN01 025 0038 1C	VN02 025 0038 1C	
	4.0 mm ²	12	100	VN01 025 0039 1C	VN02 025 0039 1C	
Turned 4 mm single crimp contacts						
silver plating	1,5 mm ²	16	100	VN01 040 0010 1C	VN02 040 0010 1C	
	2,5 mm ²	14	100	VN01 040 0011 1C	VN02 040 0011 1C	
	4 mm ²	12	100	VN01 040 0012 1C	VN02 040 0012 1C	
	6 mm ²	10	100	VN01 040 0013 1C	VN02 040 0013 1C	

Description - Figure		Frame for pin modules	Frame for socket modules
Frame for 2 modules Size E6		C146 10P006 000 15	C146 10S006 000 15
Frame for 3 modules Size E10		C146 10P010 000 15	C146 10S010 000 15
Frame for 4 modules Size E16		C146 10P016 000 15	C146 10S016 000 15
Frame for 6 modules Size E24		C146 10P024 000 15	C146 10S024 000 15

Modules		Contacts				
Pin module	Socket module	for wire gauge	AWG	Pcs	Male contact	Female contact
2 contacts module - 1000V / 100A		Turned 8.0 mm crimp contacts - silver plating				
C146 10A002 100 15 	C146 10B002 100 15 	10 mm ²	8	100	N01 080 0003 1	N02 080 0003 1
		16 mm ²	6	100	N01 080 0004 1	N02 080 0004 1
		25 mm ²	4	100	N01 080 0005 1	N02 080 0005 1
		35 mm ²	2	100	N01 080 0006 1	N02 080 0006 1
3 contacts module - 690V / 40A		Turned 4.0 mm crimp contacts - silver plating				
C146 10A003 500 15 	C146 10A003 500 15 	1,5 mm ²	16	100	VN01 040 0010 1C	VN02 040 0010 1C
		2,5 mm ²	14	100	VN01 040 0011 1C	VN02 040 0011 1C
		4 mm ²	12	100	VN01 040 0012 1C	VN02 040 0012 1C
		6 mm ²	10	100	VN01 040 0013 1C	VN02 040 0013 1C
4 contacts module - 830V / 40A		Turned 4.0 mm crimp contacts - silver plating				
C146 10A004 500 15 	C146 10B004 500 15 	1,5 mm ²	16	100	VN01 040 0010 1C	VN02 040 0010 1C
		2,5 mm ²	14	100	VN01 040 0011 1C	VN02 040 0011 1C
		4 mm ²	12	100	VN01 040 0012 1C	VN02 040 0012 1C
		6 mm ²	10	100	VN01 040 0013 1C	VN02 040 0013 1C
6 contacts module - 500V / 16A		Turned 2.5 mm crimp contacts - silver plating (gold plating:2C)				
C146 10A006 500 15 	C146 10B006 500 15 	0.5 mm ²	20	100	VN01 025 0035 1C	VN02 025 0035 1C
		0.75 - 1.0 mm ²	18	100	VN01 025 0036 1C	VN02 025 0036 1C
		1.5 mm ²	16	100	VN01 025 0037 1C	VN02 025 0037 1C
		2.5 mm ²	14	100	VN01 025 0038 1C	VN02 025 0038 1C
		4.0 mm ²	12	100	VN01 025 0039 1C	VN02 025 0039 1C

Modules		Contacts				
Pin module	Socket module	Wire gauge	AWG	Pcs	Male contact	Female contact
8 contacts module - 400V / 16A		Turned 2.5 mm crimp contacts - silver plating (gold plating:2C)				
C146 10A008 500 15 	C146 10B008 500 15 	0.5 mm ²	20	100	VN01 025 0035 1C	VN02 025 0035 1C
		0.75 - 1.0 mm ²	18	100	VN01 025 0036 1C	VN02 025 0036 1C
		1.5 mm ²	16	100	VN01 025 0037 1C	VN02 025 0037 1C
		2.5 mm ²	14	100	VN01 025 0038 1C	VN02 025 0038 1C
		4.0 mm ²	12	100	VN01 025 0039 1C	VN02 025 0039 1C
12 contacts module - 400V / 10A		Turned 1.6 mm crimp contacts - silver plating (gold plating:2C)				
C146 10A012 500 15 	C146 10B012 500 15 	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C
		0.5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C
		0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C
		1.5 mm ²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C
		2.5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C
17 contacts module - 160V / 10A		Turned 1.6 mm crimp contacts - silver plating (gold plating:2C)				
C146 10A017 500 15 	C146 10B017 500 15 	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C
		0.5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C
		0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C
		1.5 mm ²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C
		2.5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C
20 contacts module - 500V / 16A		Turned 2.5 mm crimp contacts - silver plating (gold plating:2C)				
C146 10A020 500 15 	C146 10B020 500 15 	0.5 mm ²	20	100	VN01 025 0035 1C	VN02 025 0035 1C
		0.75 - 1.0 mm ²	18	100	VN01 025 0036 1C	VN02 025 0036 1C
		1.5 mm ²	16	100	VN01 025 0037 1C	VN02 025 0037 1C
		2.5 mm ²	14	100	VN01 025 0038 1C	VN02 025 0038 1C
		4.0 mm ²	12	100	VN01 025 0039 1C	VN02 025 0039 1C
Shielded Module 2x4 contacts - 50V		Turned 1.6 mm crimp contacts - gold plating				
C146 10A002 900 15 	C146 10B002 900 15 	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 2C	VN02 016 0024 2C
		0.5 mm ²	20	100	VN01 016 0025 2C	VN02 016 0025 2C
		0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 2C	VN02 016 0026 2C
		1.5 mm ²	16 - 15	100	VN01 016 0027 2C	VN02 016 0027 2C
		2.5 mm ²	14	100	VN01 016 0028 2C	VN02 016 0028 2C
Blind modules						
C146 10H000 000 15 with centering function 	C146 10H000 001 15 standard 					


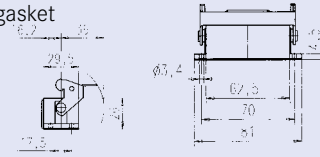

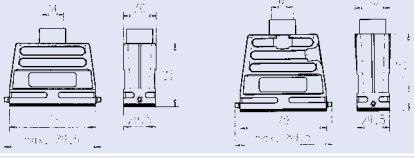

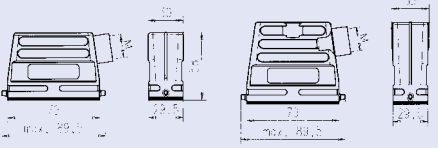
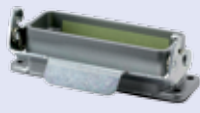
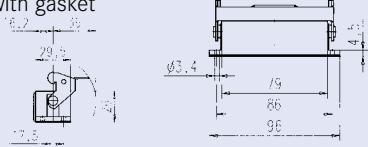
Description - Figure		Frame for pin modules	Frame for socket modules
Frame for 2 modules		C146 P06 001 G8	C146 S06 001 G8
Frame for 3 modules		C146 P10 001 G8	C146 S10 001 G8
Frame for 5 modules		C146 P16 001 G8	C146 S16 001 G8
Frame for 7 modules		C146 P24 001 G8	C146 S24 001 G8


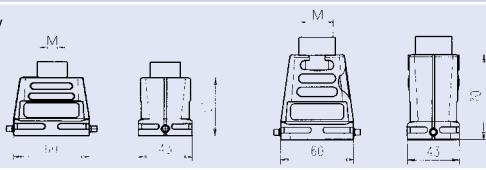

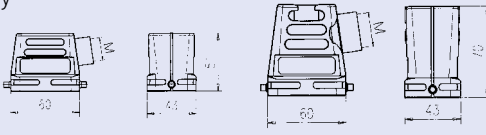

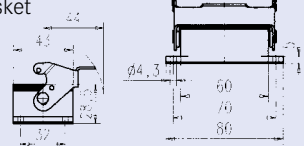
Modules		Contacts				
Pin module	Socket module	for wire gauge	AWG	Pcs	Male contact	Female contact
1 contacts module - 1000V/240A		Turned 10 mm crimp contacts RADSOK - silver plating				
 C146 A01 001 E8	 C146 B01 004 E8	50 mm ²	1	1	N01 100 6001 001	N02 100 6121 002
		70 mm ²	00	1	N01 100 6002 001	N02 100 6122 002
		95 mm ²	000	1	N01 100 6003 001	N02 100 6123 002
2 contacts Radsok module - 1000V/150A		Turned 6 mm crimp contacts RADSOK - silver plating				
 C146 A02 001 E8	 C146 B02 001 E8	16 mm ²	6	1	N01 060 0007 1	N02 060 6117 001
		25 mm ²	4	1	N01 060 0004 1	N02 060 6114 001
		35 mm ²	2	1	N01 060 0008 1	N02 060 6118 001
2 contacts power module - 1000V/80A		Turned 3.6 mm crimp contacts - silver plating				
 C146 A02 801 E8	 C146 B02 801 E8	16 mm ²	6	100	VN01 036 0021 1C	VN02 036 0021 1C
3 contacts module - 1000V/50A		Turned 3.6 mm crimp contacts - silver plating				
 C146 A03 801 E8	 C146 B03 801 E8	1.5 mm ²	16	100	VN01 036 0004 1C	VN02 036 0004 1C
		2.5 mm ²	14	100	VN01 036 0005 1C	VN02 036 0005 1C
		4.0 mm ²	12	100	VN01 036 0001 1C	VN02 036 0001 1C
		6.0 mm ²	10	100	VN01 036 0002 1C ¹⁾	VN02 036 0002 1C ¹⁾
		10.0 mm ²	8	100	VN01 036 0003 1C ¹⁾	VN02 036 0003 1C ¹⁾
3 contacts module - 630V/50A		Turned 3.6 mm crimp contacts contacts - silver plating				
 C146 A03 001 E8	 C146 B03 001 E8	1.5 mm ²	16	100	VN01 036 0004 1C	VN02 036 0004 1C
		2.5 mm ²	14	100	VN01 036 0005 1C	VN02 036 0005 1C
		4.0 mm ²	12	100	VN01 036 0001 1C	VN02 036 0001 1C
		6.0 mm ²	10	100	VN01 036 0002 1C ¹⁾	VN02 036 0002 1C ¹⁾
		10.0 mm ²	8	100	VN01 036 0003 1C ¹⁾	VN02 036 0003 1C ¹⁾


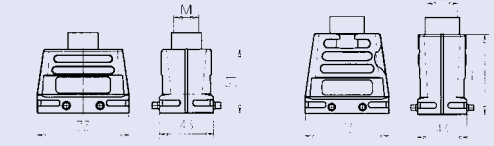

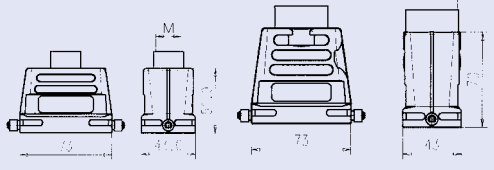

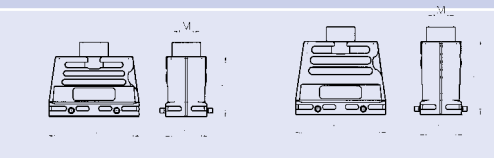

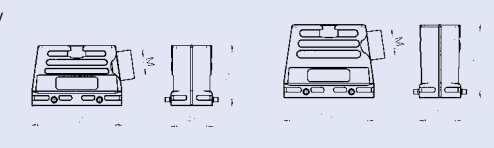
Modules		Contacts					
Pin module	Socket module	for wire gauge	AWG	Pcs	Male contact	Female contact	
4/4+PE/5 contacts mod. - 1000V/22A		Stamped 2.5mm crimp contacts - silver plating					
C146 D04 001 E8 C146 D05 001 E8 C146 D05 801 E8 	C146 C04 001 E8 C146 C05 001 E8 C146 C05 801 E8 	0.5 - 1.5 mm ²	20 - 16	100	VN01 025 0001 101	VN02 025 0001 101	
		1.5 - 2.5 mm ²	16 - 14	100	VN01 025 0010 101	VN02 025 0010 101	
		2.5 - 4.0 mm ²	12	100	VN01 025 0043 1	VN02 025 0043 1	
5 contacts module - 500V/35A		Turned 2.5 mm crimp contacts - silver plating					
C146 A05 001 E8 	C146 B05 001 E8 	0.5 mm ²	20	100	VN01 025 0029 1C	VN02 025 0029 1C	
		0.75 - 1.0 mm ²	18	100	VN01 025 0030 1C	VN02 025 0030 1C	
		1.5 mm ²	16	100	VN01 025 0031 1C	VN02 025 0031 1C	
		2.5 mm ²	14	100	VN01 025 0032 1C	VN02 025 0032 1C	
		4.0 mm ²	12	100	VN01 025 0033 1C	VN02 025 0033 1C	
10 contacts module - 400V/10A		Stamped 1.6 mm crimp contacts - silver plating (gold plating: ...2)					
C146 D10 001 E8 	C146 C10 001 G8 	Standard	0.14 - 0.5 mm ²	26 - 20	100	VN01 016 0003 1	VN02 016 0003 1
			0.5 - 1.5 mm ²	20 - 16	100	VN01 016 0002 1	VN02 016 0002 1
			1.5 - 2.5 mm ²	16 - 14	100	VN01 016 0005 1	VN02 016 0005 1
		High current	0.5 - 1.5 mm ²	20 - 16	100	VN01 016 0015 1	VN02 016 0015 1
			1.5 - 2.5 mm ²	16 - 14	100	VN01 016 0016 1	VN02 016 0016 1
10 contacts module - 400V/10A		Turned 1.6 mm crimp contacts - silver plating (gold plating: ...2C)					
C146 A10 001 E8 	C146 B10 001 E8 	0.14 - 0.37mm ²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C	
		0.5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C	
		0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C	
		1.5 mm ²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C	
		2.5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C	
20 contacts module - 63V/7A		Stamped 1.0 mm crimp contacts - gold plating					
C146 A20 001 G8 	C146 B20 001 G8 	0.09 - 0.25 mm ²	28 - 26	100	VN01 010 0130 2	VN02 010 0130 2	
		0.25 - 0.50 mm ²	24 - 20	100	VN01 010 0131 2	VN02 010 0131 2	
3 contacts module for coax contacts		Coax crimp contacts					
C146 A03 501 E8 	C146 B03 501 E8 	RG 174, 179, 316		1	L17 DM 537 401	17 DM 537 421	
		RG 58		1	17 DM 537 405	17 DM 537 425	
RJ module		Turned 1.6 mm crimp contacts - silver plating (gold plating: ...2C)					
C146 E12 001 E8 	C146 F12 001 G8 	0.14 - 0.37 mm ²	26 - 22	100	VN01 016 0024 1C	VN02 016 0024 1C	
		0.5 mm ²	20	100	VN01 016 0025 1C	VN02 016 0025 1C	
		0.75 - 1.0 mm ²	20 - 16	100	VN01 016 0026 1C	VN02 016 0026 1C	
		1.5 mm ²	16 - 15	100	VN01 016 0027 1C	VN02 016 0027 1C	
		2.5 mm ²	14	100	VN01 016 0028 1C	VN02 016 0028 1C	

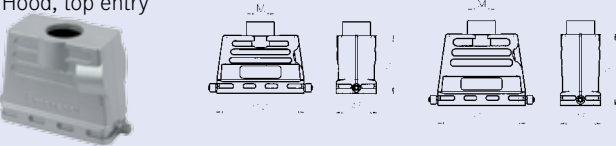
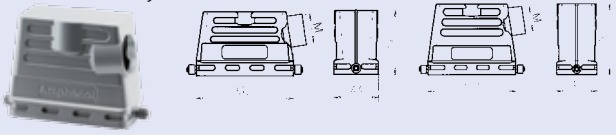

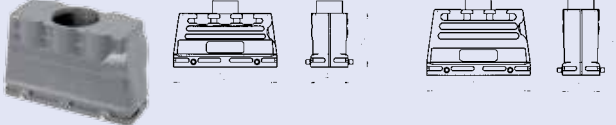
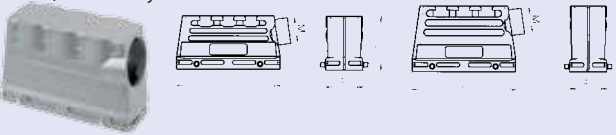

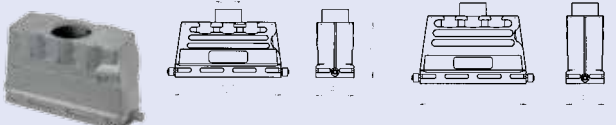
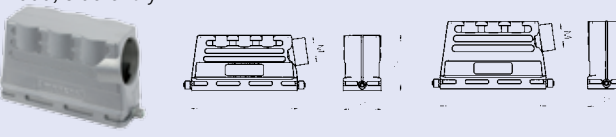

General Characteristics	Standard	Value
Protection class housing	IEC 60529	IP65
Protection class protective cover	IEC 60529	IP65
Locking system		Locking lever
Climatic Characteristics		
Climatic Category	IEC 60068-1	40/125/21
Temperature range	IEC 60068-1	-40°C / +125°C
Materials		
Housing		Zinc / aluminium die cast alloy
Protective cover		PA
Rubber gasket		NBR
Locking lever		Steel / zinc coated

Description & Drawings	Profile	Metric Thread	Part Number	Length in mm	Width in mm	Height in mm	To be used with heavy mate
Size A3/4							
Hood, top entry 		20	C146 30R003 600 4	26,8	33,4	60	A 3+PE A 4+PE D 7+PE D 8+PE Q 5+PE
Hood, side entry 		20	C146 30R003 500 4	26,5	36	48	
Housing bulkhead mounting with gasket 			C146 30F003 000 4	40,1	28	23,1	
Housing bulkhead end mounting with gasket 			C146 30F003 004 4	40	27,8	26	
Size A10							
Hood, top entry 	low	20	C146 21R010 650 4	62,5	29,5	53	A 10+PE D 15+PE
		25	C146 21R010 600 4	62,5	29,5	53	
	high	20	C146 21R015 650 2	62,5	29,5	64,5	
		25	C146 21R015 600 2	62,5	29,5	64,5	
Hood, side entry 	low	20	C146 21R010 550 4	62,5	29,5	53	
		25	C146 21R010 500 4	62,5	29,5	53	
	high	20	C146 21R015 550 2	62,5	29,5	64,5	
		25	C146 21R015 500 2	62,5	29,5	64,5	

Description & Drawings	Profile	Metric Thread	Part Number	Length in mm	Width in mm	Height in mm	To be used with heavy mate	
Size A10								
Housing bulkhead mounting with gasket 			C146 10F015 000 2	81	29,5	26	A 10+PE D 15+PE	
								
Size A16								
Hood, top entry 	low	20	C146 21R016 650 4	79	29,5	58	A 16+PE D 25+PE	
		25	C146 21R016 600 4	79	29,5	58		
		high	20	C146 21R025 650 2	79	29,5		70,5
			25	C146 21R025 600 2	79	29,5		70,5
	Hood, side entry 	low	20	C146 21R016 550 4	79	29,5	58	A 16+PE D 25+PE
	25		C146 21R016 500 4	79	29,5	58		
	high		20	C146 21R025 550 2	79	29,5	70,5	
			25	C146 21R025 500 2	79	29,5	70,5	
	Housing bulkhead mounting with gasket 			C146 10F025 000 2	96	29,5	26	
								

Description & Drawings	Profile	Metric Thread	Part Number	Length in mm	Width in mm	Height in mm	To be used with heavy mate		
Size E6 for 1 locking lever									
Hood, top entry 	low	16	C146 21R006 656 1	60	43	51	DD 24+PE E 6+PE EE 10+PE F 2 Modules M 2 Modules		
		20	C146 21R006 606 1	60	43	51			
		high	25	C146 21R006 656 8	60	43		70	
			32	C146 21R006 606 8	60	43		70	
	Hood, side entry 	low	20	C146 21R006 506 1	60	43		51	DD 24+PE E 6+PE EE 10+PE F 2 Modules M 2 Modules
	25		C146 21R006 507 1	60	43	51			
	high		25	C146 21R006 556 8	60	43		70	
			32	C146 21R006 506 8	60	43		70	
	Housing bulkhead mounting with gasket 			C146 10F006 000 1	80	43	28,5		
									

Description & Drawings		Profile	Metric Thread	Part Number	Length in mm	Width in mm	Height in mm	To be used with heavy mate
Size E10 for 2 locking levers								
Hood, top entry  	low	20	C146 21R010 650 1	73	43	51	DD 42+PE E 10+PE EE 18+PE F 3 Modules M 3 Modules	
		25	C146 21R010 600 1	73	43	51		
	high	25	C146 21R010 650 8	73	43	70		
		32	C146 21R010 600 8	73	43	70		
	Hood, side entry	low	20	C146 21R010 550 1	73	43		51
			25	C146 21R010 500 1	73	43		51
	high	25	C146 21R010 550 8	73	43	70		
		32	C146 21R010 500 8	73	43	70		
Housing bulkhead mounting with gasket			C146 10F010 000 1	93	43	28,5		
Size E10 for 1 locking lever								
Hood, top entry  	low	20	C146 21R010 656 1	73	43	51		
		25	C146 21R010 606 1	73	43	51		
		32	C146 21R010 607 1	73	43	51		
	high	25	C146 21R010 656 8	73	43	70		
		32	C146 21R010 600 8	73	43	70		
		40	C146 21R010 607 8	73	43	70		
Hood, side entry	low	20	C146 21R010 556 1	73	43	51		
		25	C146 21R010 506 1	73	43	51		
		high	25	C146 21R010 556 8	73	43	70	
	32	C146 21R010 506 8	73	43	70			
Housing bulkhead mounting with gasket			C146 10F010 001 1	93	43	28,5		
Size E16 for 2 locking levers								
Hood, top entry  	low	25	C146 21R016 650 1	93,5	43	62	D 40+PE DD 72+PE E 16+PE EE 32+PE K 4/2+PE K 6/36+PE F 4 Modules M 5 Modules	
		32	C146 21R016 600 1	93,5	43	62		
	high	32	C146 21R016 600 8	93,5	43	76		
		40	C146 21R016 601 8	93,5	43	76		
Hood, side entry  	low	25	C146 21R016 550 1	93,5	43	62		
		32	C146 21R016 500 1	93,5	43	62		
	high	32	C146 21R016 500 8	93,5	43	76		
		40	C146 21R016 501 8	93,5	43	76		
Housing bulkhead mounting with gasket			C146 10F016 000 1	113	43	28,5		

Description & Drawings		Profile	Metric Thread	Part Number	Length in mm	Width in mm	Height in mm	To be used with heavy mate
Size E16 for 1 locking lever								
Hood, top entry 	low	25	C146 21R016 656 1	93,5	43	62	D 40+PE DD 72+PE E 16+PE EE 32+PE K 4/2+PE K 6/36+PE F 4 Modules M 5 Modules	
		32	C146 21R016 606 1	93,5	43	62		
	high	32	C146 21R016 606 8	93,5	43	76		
		40	C146 21R016 607 8	93,5	43	76		
Hood, side entry 	low	25	C146 21R016 556 1	93,5	43	62		
		32	C146 21R016 506 1	93,5	43	62		
	high	32	C146 21R016 506 8	93,5	43	76		
		40	C146 21R016 507 8	93,5	43	76		
Housing bulkhead mounting with gasket 			C146 10F016 001 1	113	43	28,5		
Size E24 for 2 locking levers								
Hood, top entry 	low	25	C146 21R024 650 1	120	43	62	D 64+PE DD 108+PE E 24+PE EE 46+PE F 6 Modules M 7 Modules	
		32	C146 21R024 600 1	120	43	62		
	high	32	C146 21R024 600 8	120	43	76		
		40	C146 21R024 601 8	120	43	76		
Hood, side entry 	low	25	C146 21R024 550 1	120	43	62		
		32	C146 21R024 500 1	120	43	62		
	high	32	C146 21R024 500 8	120	43	76		
		40	C146 21R024 501 8	120	43	76		
Housing bulkhead mounting with gasket 			C146 10F024 000 1	140	43	28,5		
Size E24 for 1 locking lever								
Hood, top entry 	low	25	C146 21R024 656 1	120	43	62		
		32	C146 21R024 606 1	120	43	62		
	high	32	C146 21R024 606 8	120	43	76		
		40	C146 21R024 607 8	120	43	76		
Hood, side entry 	low	25	C146 21R024 556 1	120	43	62		
		32	C146 21R024 506 1	120	43	62		
	high	32	C146 21R024 506 8	120	43	76		
		40	C146 21R024 507 8	120	43	76		
Housing bulkhead mounting with gasket 			C146 10F024 001 1	140	43	28,5		

Comment: More versions of our standard IP65 housings, as well as EMV, IP67, IP68 and corrosion resistant versions can be found in our main catalogue

If you are interested in further connector solutions, please get in contact with us.

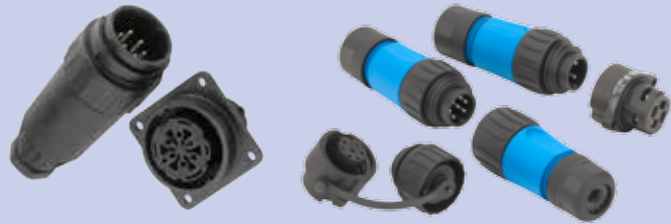
C 091

M16 circular connectors with metal or plastic housing; 2-8, 12, 14 poles; IP40 up to IP68



C16-3 & eco|mate

Plastic circular connectors with screw or bayonet locking; 2-19 poles; IP65 & IP67



sensor|mate

M8 & M12 circular connectors for sensor applications; 3,4,5,8 poles; IP67 & IP68



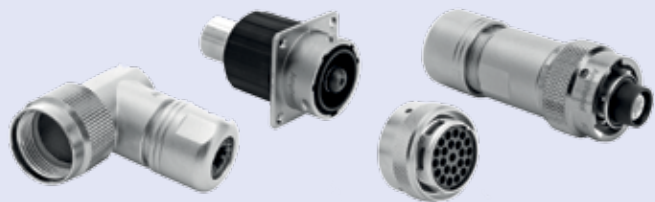
motion|grade

M23 & M40 connectors for motor applications



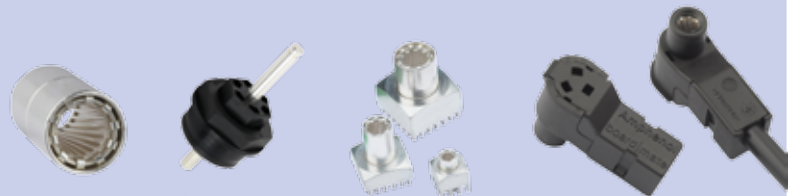
RT360

Robust metal connectors available in signal, power and mixed versions; 1-41 poles



Radsok

High power contact technology Available in different contact sizes and housing versions



A-Series

High-performance rectangular plastic connectors; 2-12 poles; IP67 & IP69K



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