Amphenol

Amphenol-Tuchel Electronics GmbH

Series C 146

Heavy Duty Connectors
Core Programme

The Company

Amphenol-Tuchel Electronics GmbH is a member of the USA based Amphenol Corporation. With our own global presence we offer our customers exceptional technical support and service in the areas of development, production and distribution. Amphenol-Tuchel Electronics GmbH has a successful history as a partner to our customers and sets standards for connector technology.

General information

These connectors are designed and produced in conformity with the low voltage directive (73/23/EWG) respectively Gerätesicherheitsgesetz (German law) and are especially in accordance with the standards DIN EN 61984 (VDE0627); IEC 60664-1 (VDE 0110-1) nad IEC 60529.
The connectors may be used only within the technical ratings.

The indicated dimensions with the panel cut-outs represent reference values and are in the concrete application with products to be co-ordinated.

It is the users responsability to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee. We reserve the right to modify designs in order to improve quality, keep pace with technological advancement or meet particular requirements in production. This catalogue must not be used in any form or manner without our prior approval in writing (Copyright Law, Fair Trading Law, Civil Code).

C 146

Characteristics

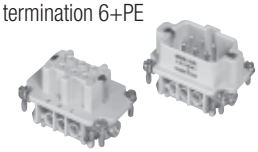
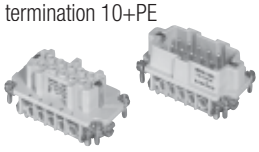
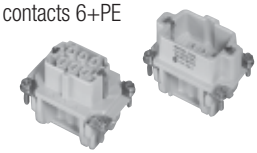
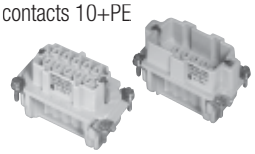
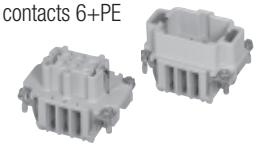
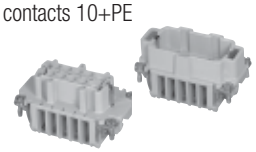
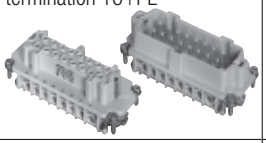
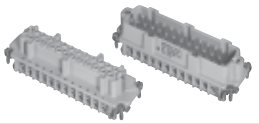
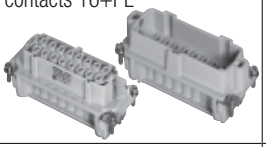
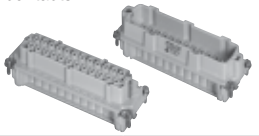
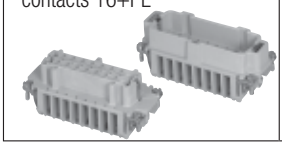
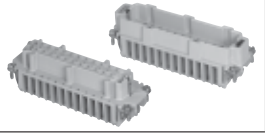
Series	C 146 D							C 146 DD				C 146 E					C 146 EE			
Number of contacts	7+PE, 8	15+ PE	25+ PE	40+ PE	50+ PE	64+ PE	128+ PE	24+ PE	42+ PE	72+ PE	108+ PE	6 +	10 +	16 +	24 +	48 +	10+ PE	18+ PE	32+ PE	46+ PE
Termination	crimp							crimp				crimp / screw								
Wire gauge	0,14 - 2,5							0,14 - 2,5				0,5 -4,0 0,25 - 2,5					0,5 - 4,0			
Flammability (UL 94)	V - 0							V - 0				V - 0					V - 0			
Certifications	UL, CSA							UL, CSA									UL, CSA			
according DIN EN 175301-801		✓	✓	✓		✓														
Insertion and withdrawal force in N	10 - 15	20 - 30	40 - 60	60 - 90	80 - 120	100 - 150	200 - 300					SCR[1]: 20-30 CR: 10-20	SCR[1]: 40-50 CR: 30-40	SCR[1]: 80-100 CR: 45-60	SCR[1]: 100-120 CR: 70-100	SCR[1]: 200-240 CR: 140-200				
Rated voltage (VDE)	250							250				400					500			
Rated voltage (UL, CSA) in V	600							600				600					600			
Pollution degree	3							2 (3 in mated and locked condition)				3					3			
Installation (overvoltage) category	III							III				III					III			
Rated current (Tu=40°C) in A	16	12		10				9	8			22	19		18		16			
Lower temperature in °C	-40							-40				-40					-40			
Upper temperature in °C	+125							+100				+125					+100			

[1]SCR = screw, CR = crimp

Series	C 146 M										C 146 A			
Number of contacts	20	10	10	5	3	4+PE/5	3	3	Rj45 + 4	Pneu	3,4 +	10 +	16 +	32 +
Termination	crimp	crimp	crimp	crimp	crimp	crimp	crimp&solder	crimp	crimp&push	tube				
Contacts	stamped	stamped	turned	turned	turned	stamped	Coax	turned	turned	termination	screw			
Wire gauge	0,09 - 0,5	0,14 - 2,5	0,14 - 2,5	0,5 - 4,0	1,5 - 10	0,5 - 4,0		1,5 - 10	0,14 - 2,5	2,5 + 4,0	0,25 - 2,5			
Flammability (UL 94)	V - 0										V - 0			
Certifications	UL, CSA, SEV, VDE										UL, CSA			
Insertion and withdrawal force in N	10 - 15	20 - 25	25 - 30	25 - 30	20 - 30	15 - 20	25 - 30	20 - 30	15 - 20		15 - 20	50 - 70	80 - 100	160 - 200
Rated voltage (VDE)	63	250	250	400	630	1000	250	1000	125V + 400V		400	250		
Rated voltage (UL, CSA) in V	63	250	250	400	630	1000	250	1000	125V + 400V		600			
Pollution degree	3										3			
Installation (overvoltage) category	III	III	III								III			
Rated current (Tu=40°C) in A	5	10	10	20	50	16		50	1,5 and 13		18	16	14	
Lower temperature in °C	-40								-20		-40			
Upper temperature in °C	+ 125		+ 100	+ 125					+ 80	+ 100	+ 100			

C 146 E

Inserts

Description - Figure	Part No. Male insert	Part No. Female insert	Description - Figure	Part No. Male insert	Part No. Female insert
Contact insert screw termination 6+PE 	C146 10A006 102 1 [1] (*with wire protection*)	C146 10B006 102 1 [1] (*with wire protection*)	Contact insert screw termination 10+PE 	C146 10A010 102 1 [1] (*with wire protection*)	C146 10B010 102 1 [1] (*with wire protection*)
Contact insert for stamped contacts 6+PE 	C146 10A006 000 1	C146 10B006 000 1	Contact insert for stamped contacts 10+PE 	C146 10A010 000 1	C146 10B010 000 1
Contact insert for turned contacts 6+PE 	C146 10A006 500 1	C146 10B006 500 1	Contact insert for turned contacts 10+PE 	C146 10A010 500 1	C146 10B010 500 1
Contact insert screw termination 16+PE 	C146 10A016 102 1 [1] (*with wire protection*)	C146 10B016 102 1 [1] (*with wire protection*)	Contact insert screw termination [2] 24+PE 	C146 10A024 102 1 [1] (*with wire protection*)	C146 10B024 102 1 [1] (*with wire protection*)
Contact insert for stamped contacts 16+PE 	C146 10A016 000 1	C146 10B016 000 1	Contact insert for stamped contacts [2] 24+PE 	C146 10A024 000 1	C146 10B024 000 1
Contact insert for turned contacts 16+PE 	C146 10A016 500 1	C146 10B016 500 1	Contact insert for turned contacts [2] 24+PE 	C146 10A024 500 1	C146 10B024 500 1

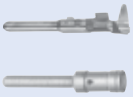
C 146 EE

Inserts

Description - Figure	Part No. Male insert	Part No. Female insert	Description - Figure	Part No. Male insert	Part No. Female insert
Contact insert 10+PE	C146 10A010 500 10	C146 10B010 500 10	*Contact insert* 18+PE	C146 10A018 500 10	C146 10B018 500 10
Contact insert 32+PE	C146 10A032 500 10	C146 10B032 500 10	Contact insert 46+PE	C146 10A046 500 10	C146 10B046 500 10

[1] For versions without wire protection please refer C146 main catalog or www. amphenol.info
[2] For 48 pol version please refer C146 main catalog or www.amphenol.info

C 146 E / C 146 EE



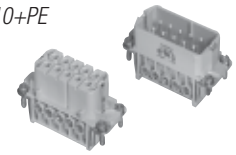
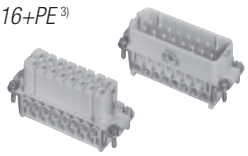
Contacts[1)]

Supplied as	for wire gauge	AWG	Pieces	Part No. Male contact	Part No. Female contact
Stamped single contacts					
	0,5 - 1,5 mm²	20 - 16	100	VN01 025 0001 (101)	VN02 025 0001 (101)
	1,5 - 2,5 mm²	16 - 14	100	VN01 025 0010 (101)	VN02 025 0010 (101)
Stamped contacts on reel for hand crimp tools					
	0,5 - 1,5 mm²	20 - 16	200	ZN01 025 0001 (1)	ZN02 025 0001 (1)
	1,5 - 2,5 mm²	16 - 14	100	ZN01 025 0010 (1)	ZN02 025 0010 (1)
Stamped contacts on reel for crimp machines					
Contact feeding right	0,5 - 1,5 mm²	20 - 16	2000	HN01 025 0001 (1)	HN02 025 0001 (1)
hand side	1,5 - 2,5 mm²	16 - 14	2000	HN01 025 0010 (1)	HN02 025 0010 (1)
Contact feeding left	0,5 - 1,5 mm²	20 - 16	2000	TN01 025 0001 (1)	TN02 025 0001 (1)
hand side	1,5 - 2,5 mm²	16 - 14	2000	TN01 025 0010 (1)	TN02 025 0010 (1)
Turned crimp contacts					
Single contact	0,5 mm²	20	100	VN01 025 0035 (1)C	VN02 025 0035 (1)C
	0,75 - 1,0 mm²	18	100	VN01 025 0036 (1)C	VN02 025 0036 (1)C
	1,5 mm²	16	100	VN01 025 0037 (1)C	VN02 025 0037 (1)C
	2,5 mm²	14	100	VN01 025 0038 (1)C	VN02 025 0038 (1)C
	4,0 mm²	12	100	VN01 025 0039 (1)C	VN02 025 0039 (1)C

[1)] For gold plated contacts please refer C146 main catalog or www.amphenol.info

C 146 A

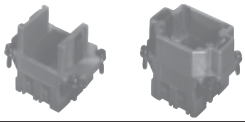
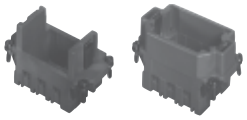
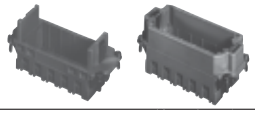
Inserts

Description - Figure	Part No. Male insert	Part No. Female insert	Description - Figure	Part No. Male insert	Part No. Female insert
Contact insert screw termination 3+PE	C146 10A003 002 4	C146 10B003 002 4	*Contact insert screw termination* 4+PE	C146 10A004 002 4	C146 10B004 002 4
Contact insert screw termination 10+PE 	C146 10A010 102 4 [2)] (*with wire protection*)	C146 10B010 102 4 [2)] (*with wire protection*)	*Contact insert screw termination* 16+PE [3)] 	C146 10A016 102 4 [2)] (*with wire protection*)	C146 10B016 102 4 [2)] (*with wire protection*)

[2)] For versions without wire protection please refer C146 main catalog or www. amphenol.info
[3)] For 32 pol versions please refer C146 main catalog or www.amphenol.info

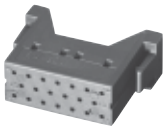
C 146 M

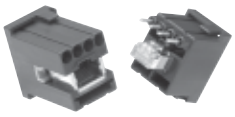
Frames

Description - Figure	Positions	Part No. Frame for pin modules	Part No. Frame for socket module
Frame for 2 modules 	A - B	C146 P06 001 G8 C146 P06 002 G8 (2 x PE)	C146 S06 001 G8 C146 S06 002 G8 (2 x PE)
Frame for 3 modules 	A - C	C146 P10 001 G8 C146 P10 002 G8 (2 x PE)	C146 S10 001 G8 C146 S10 002 G8 (2 x PE)
Frame for 5 modules 	A - E	C146 P16 001 G8 C146 P16 002 G8 (2 x PE)	C146 S16 001 G8 C146 S16 002 G8 (2 x PE)
Frame for 7 modules	A - G T - Z	C146 P24 001 G8 C146 P24 002 G8 (2 x PE) C146 P24 101 G8 C146 P24 102 G8 (2 x PE)	C146 S24 001 G8 C146 S24 002 G8 (2 x PE) C146 S24 101 G8 C146 S24 102 G8 (2 x PE)

C 146 M

Modules Contacts

Description - Figure	Part No. pin module	Part No. socket module	Supplied as	for wire gauge	AWG	Pieces	Part No. Male contacts	Part No. Female contacts
20 contacts for stamped contacts 	C146 A20 001 G8	C146 B20 001 G8	**Single contacts for hand crimping tools**				**gold plating**	
				0,09 - 0,25 mm²	28-24	100	VN01 010 0130 (2)	VN02 010 0130 (2)
				0,25 - 0,50 mm²	24-20	100	VN01 010 0131 (2)	VN02 010 0131 (2)
			Contacts on reel for hand crimping tools					
				0,09 - 0,25mm²	28-24	500	ZN01 010 0130 (2)	ZN02 010 0130 (2)
				0,25 - 0,50 mm²	24-20	500	ZN01 010 0131 (2)	ZN02 010 0131 (2)
			Contacts on reel for crimp machines					
			Contact feeding left hand side [2]	0,09 - 0,25 mm²	28-24	2000	TN01 010 0130 (2)	TN02 010 0130 (2)
				0,25 - 0,50 mm²	24-20	2000	TN01 010 0131 (2)	TN02 010 0131 (2)
10 contacts for stamped contacts	C146 D10 001 E8	C146 C10 001 G8	**Stamped single contacts**				**silver plating**	
				0,14 - 0,5 mm²	26-20	100	VN01 016 0003 (1)	VN02 016 0003 (1)
				0,5 - 1,5 mm²	20-16	100	VN01 016 0002 (1)	VN02 016 0002 (1)
			Standard	1,5 - 2,5 mm²	16-14	100	VN01 016 0005 (1)	VN02 016 0005 (1)
			High current	0,5 - 1,5 mm²	20-16	100	VN01 016 0015 (1)	VN02 016 0015 (1)
				1,5 - 2,5 mm²	16-14	100	VN01 016 0016 (1)	VN02 016 0016 (1)
			Stamped contacts on reel for hand crimp tools				**silver plating**	
				0,14 - 0,5 mm²	26-20	200	ZN01 016 0003 (1)	ZN02 016 0003 (1)
				0,5 - 1,5 mm²	20-16	200	ZN01 016 0002 (1)	ZN02 016 0002 (1)
			Standard	1,5 - 2,5 mm²	16-14	100	ZN01 016 0005 (1)	ZN02 016 0005 (1)
			High current	0,5 - 1,5 mm²	20-16	200	ZN01 016 0015 (1)	ZN02 016 0015 (1)
				1,5 - 2,5 mm²	16-14	100	ZN01 016 0016 (1)	ZN02 016 0016 (1)
			Stamped contacts on reel for crimp machines				**silver plating**	
			Contact feeding left hand side [2]	0,14 - 0,5 mm²	26-20	2000	TN01 016 0003 (1)	TN02 016 0003 (1)
				0,5 - 1,5 mm²	20-16	2000	TN01 016 0002 (1)	TN02 016 0002 (1)
			Standard	1,5 - 2,5 mm²	16-14	2000	TN01 016 0005 (1)	TN02 016 0005 (1)
			High current	0,5 - 1,5 mm²	20-16	2000	TN01 016 0015 (1)	TN02 016 0015 (1)
				1,5 - 2,5 mm²	16-14	2000	TN01 016 0016 (1)	TN02 016 0016 (1)
10 contacts for turned contacts	C146 A10 001 E8	C146 B10 001 E8	**Turned crimp contacts**				**silver plating**	
			Single contact	0,14 - 0,37 mm²	26-22	100	VN01 016 0024 (1) C	VN02 016 0024 (1) C
				0,5 mm²	20	100	VN01 016 0025 (1) C	VN02 016 0025 (1) C
				0,75 - 1,0 mm²	20-16	100	VN01 016 0026 (1) C	VN02 016 0026 (1) C
				1,5 mm²	16-15	100	VN01 016 0027 (1) C	VN02 016 0027 (1) C
				2,5 mm²	14	100	VN01 016 0028 (1) C	VN02 016 0028 (1) C

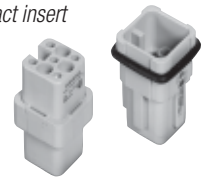
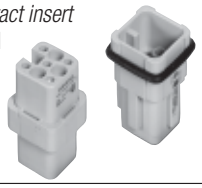
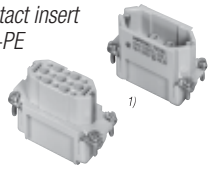
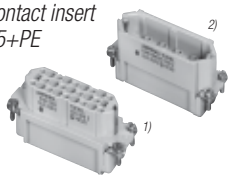
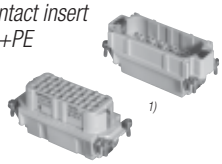
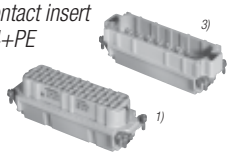
Description - Figure	Part No. pin module	Part No. socket module	Turned crimp contacts Supplied as	for wire gauge	AWG	Pieces	silver plating Male contacts	silver plating Female contacts
5 contacts for turned contacts	C146 A05 001 E8[1]	C146 B05 001 E8[1]	Single contact	0,5 mm²	20	100	VN01 025 0029 (1)C	VN02 025 0029 (1)C
				0,75 - 1,0 mm²	18	100	VN01 025 0030 (1)C	VN02 025 0030 (1)C
				1,5 mm²	16	100	VN01 025 0031 (1)C	VN02 025 0031 (1)C
				2,5 mm²	14	100	VN01 025 0032 (1)C	VN02 025 0032 (1)C
				4,0 mm²	12	100	VN01 025 0033 (1)C	VN02 025 0033 (1)C
3 contacts for turned contacts	C146 A03 001 E8	C146 B03 001 E8	**Turned crimp contacts**					
			Single contact	1,5 mm²	16	100	VN01 036 0004 (1)C	VN02 036 0004 (1)C
				2,5 mm²	14	100	VN01 036 0005 (1)C	VN02 036 0005 (1)C
				4,0 mm²	12	100	VN01 036 0001 (1)C	VN02 036 0001 (1)C
				6,0 mm²	10	100	VN01 036 0002 (1)C[1]	VN02 036 0002 (1)C[1]
				10,0 mm²	8	100	VN01 036 0003 (1)C[1]	VN02 036 0003 (1)C[1]
5 contacts for stamped contacts	C146 D04 001 E8 (4 pol)	C146 C04 001 E8 (4 pol)	**Stamped single contacts**					
				0,5 - 1,5 mm²	20-16	100	VN01 025 0001 (101)	VN02 025 0001 (101)
				1,5 - 2,5 mm²	16-14	100	VN01 025 0010 (101)	VN02 025 0010 (101)
				2,5 - 4,0 mm²	12	100	VN01 025 0043 (1)	VN02 025 0043 (1)
	C146 D05 001 E8 (4 + PE)	C146 C05 001 E8 (4 + PE)	**Contacts on reel for hand crimping tools**					
				0,5 - 1,5 mm²	20-16	200	ZN01 025 0001 (1)	ZN02 025 0001 (1)
				1,5 - 2,5 mm²	16-14	100	ZN01 025 0010 (1)	ZN02 025 0010 (1)
	C146 D05 801 E8 (5 pol)	C146 C05 801 E8 (5 pol)	**Contacts on reel for crimp machines**					
			Contact feeding left hand side [2]	0,5 - 1,5 mm²	20-16	2000	TN01 025 0001 (1)	TN02 025 0001 (1)
				1,5 - 2,5 mm²	16-14	2000	TN01 025 0010 (1)	TN02 025 0010 (1)
				2,5 - 4,0 mm²	12	2000	TN01 025 0043 (1)	TN02 025 0043 (1)
3 contacts for coax contacts	C146 A03 501 E8	C146 B03 501 E8	**Crimp contacts for cable size**					
			Single contact	RG 174, 179, 316		1	17 DM 537 401	17DM 537 421
				RG 58		1	17 DM 537 405	17DM 537 425
3 contacts for turned contacts	C146 A03 801 E8	C146 B03 801 E8	**Turned crimp contacts**					
			Single contact	1,5 mm²	16	100	VN01 036 0004 (1) C	VN02 036 0004 (1) C
				2,5 mm²	14	100	VN01 036 0005 (1) C	VN02 036 0005 (1) C
				4,0 mm²	12	100	VN01 036 0001 (1) C	VN02 036 0001 (1) C
				6,0 mm²	10	100	VN01 036 0002 (1) C	VN02 036 0002 (1) C
				10,0 mm²	8	100	VN01 036 0003 (1) C	VN02 036 0003 (1) C
RJ module 	C146 E12 001 E8	C146 F12 001 G8	**Turned crimp contacts**					
				0,14 - 0,37 mm²	26-22	100	VN01 016 0024 (1) C	VN02 016 0024 (1) C
				0,5 mm²	20	100	VN01 016 0025 (1) C	VN02 016 0025 (1) C
				0,75 - 1,0 mm²	20-16	100	VN01 016 0026 (1) C	VN02 016 0026 (1) C
				1,5 mm²	16-15	100	VN01 016 0027 (1) C	VN02 016 0027 (1) C
				2,5 mm²	14	100	VN01 016 0028 (1) C	VN02 016 0028 (1) C
Pneumatic module, 1 or 2 connections	C146 G01 014 G8 (2,5 mm)	C146 H01 034 G8 (2,5 mm)						
	C146 G01 024 G8 (4,0 mm)	C146 H01 044 G8 (4,0 mm)						
	C146 G02 014 G8 (2,5 mm)	C146 H02 034 G8 (2,5 mm)						
	C146 G02 024 G8 (4,0 mm)	C146 H02 044 G8 (4,0 mm)						

[1] For gold plated contacts please refer C146 main catalog or www.amphenol.info.

[2] For right feeding contacts please refer C146 main catalog or www.amphenol.info.

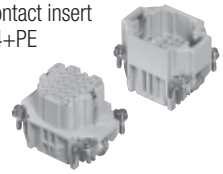
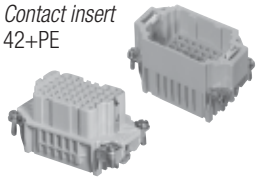
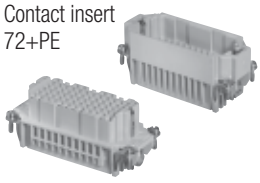
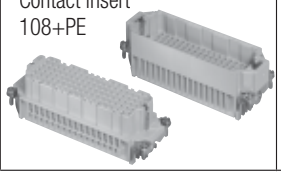
C 146 D

Inserts

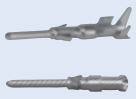
Description - Figure	Part No. Male insert	Part No. Female insert	Description - Figure	Part No. Male insert	Part No. Female insert
Contact insert 7+PE 	C146 10A007 000 2 *(for stamped crimp contacts)* C146 10A007 500 2 *(for turned crimp contacts)*	C146 10B007 000 2 *(for stamped crimp contacts)* C146 10B007 500 2 *(for turned crimp contacts)*	*Contact insert 8 pol* 	C146 10A008 000 2 *(for stamped crimp contacts)* C146 10A008 500 2 *(for turned crimp contacts)*	C146 10B008 000 2 *(for stamped crimp contacts)* C146 10B008 500 2 *(for turned crimp contacts)*
Contact insert 15+PE 	C146 10A015 000 2 *(for stamped crimp contacts)* C146 10A015 500 2 *(for turned crimp contacts)*	C146 10B015 000 2 *(for stamped crimp contacts)* C146 10B015 500 2 *(for turned crimp contacts)*	*Contact insert 25+PE* 	C146 10A025 000 2 *(for stamped crimp contacts)* C146 10A025 500 2 *(for turned crimp contacts)*	C146 10B025 000 2 *(for stamped crimp contacts)* C146 10B025 500 2 *(for turned crimp contacts)*
Contact insert 40+PE 	C146 10A040 000 2 *(for stamped crimp contacts)* C146 10A040 500 2 *(for turned crimp contacts)*	C146 10B040 000 2 *(for stamped crimp contacts)* C146 10B040 500 2 *(for turned crimp contacts)*	*Contact insert 64+PE* 	C146 10A064 000 2 *(for stamped crimp contacts)* C146 10A064 500 2 *(for turned crimp contacts)*	C146 10B064 000 2 *(for stamped crimp contacts)* C146 10B064 500 2 *(for turned crimp contacts)*

C 146 DD

Inserts

Description - Figure	Part No. Male insert	Part No. Female insert	Description - Figure	Part No. Male insert	Part No. Female insert
Contact insert 24+PE 	C146 10A024 000 9 *(for turned crimp contacts)*	C146 10B024 000 9 *(for turned crimp contacts)*	*Contact insert 42+PE* 	C146 10A042 000 9 *(for turned crimp contacts)*	C146 10B042 000 9 *(for turned crimp contacts)*
Contact insert 72+PE 	C146 10A072 000 9 *(for turned crimp contacts)*	C146 10B072 000 9 *(for turned crimp contacts)*	Contact insert 108+PE 	C146 10A108 000 9 *(for turned crimp contacts)*	C146 10B108 000 9 *(for turned crimp contacts)*

C 146 D / C 146 DD

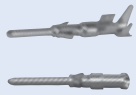


Contacts[4]

Supplied as	for wire gauge	AWG	Pieces	Part No. Male contact	Part No. Female contact
Stamped single contacts					
Standard	0,14 - 0,5 mm²	26 - 20	100	VN01 016 0003 (1)	VN02 016 0003 (1)
Standard	0,5 - 1,5 mm²	20 - 16	100	VN01 016 0002 (1)	VN02 016 0002 (1)
Standard	1,5 - 2,5 mm²	16 - 14	100	VN01 016 0005 (1)	VN02 016 0005 (1)
High current	0,5 - 1,5 mm²	20 - 16	100	VN01 016 0015 (1)	VN02 016 0015 (1)
High current	1,5 - 2,5 mm²	16 - 14	100	VN01 016 0016 (1)	VN02 016 0016 (1)

[1] For versions with two PE contacts please refer C146 main catalog or www.amphenol.info
[2] For 50 pol versions please refer C146 main catalog or www.amphenol.info
[3] For 128 pol versions please refer C146 main catalog or www.amphenol.info
[4] For gold plated contacts please refer C146 main catalog or www.amphenol.info

C 146 D / C 146 DD



Contacts[1)]

Supplied as	for wire gauge	AWG	Pieces	Part No. Male contact	Part No. Female contact
Stamped Contacts on reel for hand crimp machines					
Contact feeding left hand side	0,14 - 0,5 mm²	26 - 20	2000	TN01 016 0003 (1)	TN02 016 0003 (1)
	0,5 - 1,5 mm²	20 - 16	2000	TN01 016 0002 (1)	TN02 016 0002 (1)
Standard	1,5 - 2,5 mm²	16 - 14	2000	TN01 016 0005 (1)	TN02 016 0005 (1)
High current	0,5 - 1,5 mm²	20 - 16	2000	TN01 016 0015 (1)	TN02 016 0015 (1)
	1,5 - 2,5 mm²	16 - 14	2000	TN01 016 0016 (1)	TN02 016 0016 (1)
Stamped Contacts on reel for hand crimp tools					
	0,14 - 0,5 mm²	26 - 20	200	ZN01 016 0003 (1)	ZN02 016 0003 (1)
	0,5 - 1,5 mm²	20 - 16	200	ZN01 016 0002 (1)	ZN02 016 0002 (1)
Standard	1,5 - 2,5 mm²	16 - 14	100	ZN01 016 0005 (1)	ZN02 016 0005 (1)
High current	0,5 - 1,5 mm²	20 - 16	200	ZN01 016 0015 (1)	ZN02 016 0015 (1)
	1,5 - 2,5 mm²	16 - 14	100	ZN01 016 0016 (1)	ZN02 016 0016 (1)
Turned crimp contacts					
Single contact	0,14 - 0,37 mm²	26 - 22	100	VN01 016 0024 (1)	VN02 016 0024 (1)
	0,5 mm²	20	100	VN01 016 0025 (1)	VN02 016 0025 (1)
	0,75 - 1,0 mm²	20 - 16	100	VN01 016 0026 (1)	VN02 016 0026 (1)
	1,5 mm²	16 - 15	100	VN01 016 0027 (1)	VN02 016 0027 (1)
	2,5 mm²	14	100	VN01 016 0028 (1)	VN02 016 0028 (1)

[1)] For gold plated contacts please refer C146 main catalog or www.amphenol.info

IP 68 Housings

General Characteristics	Standard	Value
Degree of protection housing	IEC 60529	IP68
Degree of protection cover	IEC 60529	IP68
Locking System		2 screws
Climatical Characteristics		
Climatic category	IEC 60068 - 1	40/100/21
Temperature range	IEC 60068 - 1	-40°C/+100°C
Materials		
Housing		Aluminium die cast alloy
Protective cover		Aluminium die cast alloy
Rubber gasket		Conductive neoprene
Locking screws		Stainless steel
Surface		Special surface

				C 146 E 6 pol. C 146 M 2 Module C 146 DD 24 pol. C 146 EE 10 pol.	C 146 E 10 pol. C 146 M 3 Module C 146 DD 42 pol. C 146 EE 18 pol.	C 146 E 16 pol. C 146 E 5 Module C 146 DD 40 pol. C 146 DD 72 pol. C 146 DD 32 pol.	C 146 E 24 pol. C 146 E 7 Module C 146 D 64 pol. C 146 DD 108 pol. C 146 EE 46 pol.
	Side entry	M	25	C146 68R006 556 8			
	Top entry			C146 68R006 656 8			
				C146 68F006 001 1			
	Side entry	M	32		C146 68R010 506 8	C146 68R016 506 8	
	Top entry				C146 68R010 606 8	C146 68R016 606 8	
					C146 68F010 001 1	C146 68F016 001 1	
	Side entry	M	40				C146 68R024 507 8
	Top entry						C146 68R024 607 8
							C146 68F024 001 1

Information: 1) All housings without stud 2) For dimensions please request drawings 3) bulkhead housings with cable outlets available upon request

IP 65 Housings

General Characteristics	Standard	Value
Degree of protection housing	IEC 60529	IP65
Degree of protection cover	IEC 60529	IP65
Locking System		locking lever
Climatical Characteristics		
Climatic category	IEC 60068-1	40/100/21
Temperature range	IEC 60068-1	-40°C/+100°C
Materials		
Housing		Aluminium die cast alloy
Protective cover		Aluminium die cast alloy
Rubber gasket		NBR, CR
Locking lever		steel/zinc coated

			C 146 E 6 pol. C 146 M 2 Module C 146 DD 24 pol. C 146 EE 10 pol.	L lenght in mm	B width in mm	H height in mm	C 146 E 10 pol. C 146 M 3 Module C 146 DD 42 pol. C 146 HvE 3 pol. C 146 EE 18 pol.	L lenght in mm	B width in mm	H height in mm	C 146 E 16 pol. C 146 M 5 Module C 146 D 40 pol. C 146 DD 72 pol. C 146 HSE 6pol. C 146 EE 32 pol.	L lenght in mm	B width in mm	H height in mm	C 146 E 24 pol. C 146 M 7 Module C 146 D 64 pol. C 146 DD 108 pol. C 146 HvE 10 pol. C 146 EE 46 pol.	L lenght in mm	B width in mm	H height in mm
Hood, top entry	Low profile	PG	16				C146 10G010 600 1	73,0	43	51,0										
			21				C146 10G010 601 1	73,0	43	51,0	C146 10G016 600 1	93,5	43	62,0	C146 10G024 600 1	120	43	62,0
			29								C146 10G016 601 1	93,5	43	62,0	C146 10G024 601 1	120	43	62,0
		M	20				C146 21R010 650 1	73,0	43	51,0								
			25				C146 21R010 600 1	73,0	43	51,0	C146 21R016 650 1	93,5	43	62,0	C146 21R024 650 1	120	43	62,0
			32								C146 21R016 600 1	93,5	43	62,0	C146 21R024 600 1	120	43	62,0
	High profile	PG	16				C146 10G010 650 8	73,0	43	70,0								
			21				C146 10G010 600 8	73,0	43	70,0	C146 10G016 600 8	93,5	43	76,0	C146 10G024 600 8	120	43	76,0
			29				C146 10G010 601 8	73,0	43	70,0	C146 10G016 601 8	93,5	43	76,0	C146 10G024 601 8	120	43	76,0
		M	25				C146 21R010 650 8	73,0	43	70,0	C146 21R016 650 8	93,5	43	76,0	C146 21R024 650 8	120	43	76,0
			32				C146 21R010 600 8	73,0	43	70,0	C146 21R016 600 8	93,5	43	76,0	C146 21R024 600 8	120	43	76,0
			40				C146 21R010 601 8	73,0	43	70,0	C146 21R016 601 8	93,5	43	76,0	C146 21R024 601 8	120	43	76,0
Hood, side entry	Low profile	PG	16				C146 10G010 500 1	73,0	43	51,0								
			21				C146 10G010 501 1	73,0	43	51,0	C146 10G016 500 1	93,5	43	62,0	C146 10G024 500 1	120	43	62,0
			29								C146 10G016 501 1	93,5	43	62,0	C146 10G024 501 1	120	43	62,0
		M	20				C146 21R010 550 1	73,0	43	51,0								
			25				C146 21R010 500 1	73,0	43	51,0	C146 21R016 550 1	93,5	43	62,0	C146 21R024 550 1	120	43	62,0
			32								C146 21R016 500 1	93,5	43	62,0	C146 21R024 500 1	120	43	62,0
	High profile	PG	16				C146 10G010 550 8	73,0	43	70,0								
			21				C146 10G010 500 8	73,0	43	70,0	C146 10G016 500 8	93,5	43	76,0	C146 10G024 500 8	120	43	76,0
			29				C146 10G010 501 8	73,0	43	70,0	C146 10G016 501 8	93,5	43	76,0	C146 10G024 501 8	120	43	76,0
		M	25				C146 21R010 550 8	73,0	43	70,0	C146 21R016 550 8	93,5	43	76,0	C146 21R024 550 8	120	43	76,0
			32				C146 21R010 500 8	73,0	43	70,0	C146 21R016 500 8	93,5	43	76,0	C146 21R024 500 8	120	43	76,0
			40								C146 21R016 501 8	93,5	43	76,0	C146 21R024 501 8	120	43	76,0
Housing, bulkhead mounting							C146 10F010 000 1	93,0	32	28,5	C146 10F016 000 1	113,0	32	28,5	C146 10F024 000 1	140	32	28,5
Hood, top entry	Low profile	PG	13,5	C146 10G006 600 1	60,0	43	51,0											
			16	C146 10G006 601 1	60,0	43	51,0	C146 10G010 601 1	73,0	43	51,0							
			21				C146 10G010 607 1	73,0	43	51,0	C146 10G016 606 1	93,5	43	62,0	C146 10G024 606 1	120	43	62,0
			29								C146 10G016 607 1	93,5	43	62,0	C146 10G024 607 1	120	43	62,0
		M	16	C146 21R006 656 1	60,0	43	51,0											
			20	C146 21R006 606 1	60,0	43	51,0	C146 21R010 656 1	73,0	43	51,0							
			25	C146 21R006 607 1	60,0	43	51,0	C146 21R010 606 1	73,0	43	51,0	C146 21R016 656 1	93,5	43	62,0	C146 21R024 656 1	120	43	62,0
			32				C146 21R010 607 1	73,0	43	51,0	C146 21R016 606 1	93,5	43	62,0	C146 21R024 606 1	120	43	62,0
	High profile	PG	16	C146 10G006 656 8	60,0	43	70,0											
			21	C146 10G006 606 8	60,0	43	70,0	C146 10G010 606 8	73,0	43	70,0	C146 10G016 606 8	93,5	43	76,0	C146 10G024 606 8	120	43	76,0
			29	C146 10G006 607 8	60,0	43	70,0	C146 10G010 607 8	73,0	43	70,0	C146 10G016 607 8	93,5	43	76,0	C146 10G024 607 8	120	43	76,0
		M	25	C146 21R006 656 8	60,0	43	70,0	C146 21R010 656 8	73,0	43	70,0	C146 21R016 656 8	93,5	43	76,0	C146 21R024 656 8	120	43	76,0
			32	C146 21R006 606 8	60,0	43	70,0	C146 21R010 606 8	73,0	43	70,0	C146 21R016 606 8	93,5	43	76,0	C146 21R024 606 8	120	43	76,0
			40				C146 21R010 607 8	73,0	43	70,0	C146 21R016 607 8	93,5	43	76,0	C146 21R024 607 8	120	43	76,0

Information: 1) PG housings with stud 2) Metric housings without stud 3) EMI housings are also available

4) For dimensions and panel cut outs please refer C146 main catalog and www.amphenol.info

5) For bulk head mounting housings with cable outlet, coupling housings and housings with cover please refer C146 main catalog and www.amphenol.info

6) Housings with more than one cable outlet are available upon request

			C 146 E 6 pol. C 146 M 2 Module C 146 DD 24 pol. C 146 EE 10 pol.	L lenght in mm	B width in mm	H height in mm	C 146 E 10 pol. C 146 M 3 Module C 146 DD 42 pol. C 146 HvE 3 pol. C 146 EE 18 pol.	L lenght in mm	B width in mm	H height in mm	C 146 E 16 pol. C 146 M 5 Module C 146 D 40 pol. C 146 DD 72 pol. C 146 HSE 6pol. C 146 EE 32 pol.	L lenght in mm	B width in mm	H height in mm	C 146 E 24 pol. C 146 M 7 Module C 146 D 64 pol. C 146 DD 108 pol. C 146 HvE 10 pol. C 146 EE 46 pol.	L lenght in mm	B width in mm	H height in mm
Hood, side entry	Low profile	PG 13,5	C146 10G006 500 1	60,0	43	51,0														
		PG 16	C146 10G006 501 1	60,0	43	51,0	C146 10G010 506 1	73,0	43	51,0										
		PG 21					C146 10G010 507 1	73,0	43	51,0	C146 10G016 506 1	93,5	43	62,0	C146 10G024 506 1	120	43	62,0
		PG 29									C146 10G016 507 1	93,5	43	62,0	C146 10G024 507 1	120	43	62,0
		M 20	C146 21R006 506 1	60,0	43	51,0	C146 21R010 556 1	73,0	43	51,0										
		M 25	C146 21R006 507 1	60,0	43	51,0	C146 21R010 506 1	73,0	43	51,0	C146 21R016 556 1	93,5	43	62,0	C146 21R024 556 1	120	43	62,0
		M 32									C146 21R016 506 1	93,5	43	62,0	C146 21R024 506 1	120	43	62,0
	High profile	PG 16	C146 10G006 556 8	60,0	43	51,0														
		PG 21	C146 10G006 506 8	60,0	43	51,0	C146 10G010 506 8	73,0	43	70,0	C146 10G016 506 8	93,5	43	76,0	C146 10G024 506 8	120	43	76,0
		PG 29	C146 10G006 507 8	60,0	43	51,0	C146 10G010 507 8	73,0	43	70,0	C146 10G016 507 8	93,5	43	76,0	C146 10G024 507 8	120	43	76,0
		M 25	C146 21R006 556 8	60,0	43	51,0	C146 21R010 556 8	73,0	43	70,0	C146 21R016 556 8	93,5	43	76,0	C146 21R024 556 8	120	43	76,0
		M 32	C146 21R006 506 8	60,0	43	51,0	C146 21R010 506 8	73,0	43	70,0	C146 21R016 506 8	93,5	43	76,0	C146 21R024 506 8	120	43	76,0
		M 40									C146 21R016 507 8	93,5	43	76,0	C146 21R024 507 8	120	43	76,0
Housing,bulkhead mounting			C146 10F006 000 1	80,0	43	51,0	C146 10F010 001 1	93,0	43	28,5	C146 10F016 001 1	113,0	43	28,5	C146 10F024 001 1	140	43	28,5

			C 146 D 7 pol. C 146 A 3/4 pol.	L lenght in mm	B width in mm	H height in mm		C 146 D 7 pol. C 146 A 3/4 pol.	L lenght in mm	B width in mm	H height in mm
Hood, top entry	PG	11	C146 10G003 600 4	26,5	33,5	50,0	Housing bulkhead mounting (incl. gasket)	C146 10F003 000 4 (gray)	40,0	28,0	22,0
	M	20	C146 10R003 600 4 (gray) C146 16R003 600 4 (bl)	26,5 26,5	33,5 33,5	50,0 50,0		C146 16F003 000 4 (bl)	40,0	28,0	22,0
Hood, side entry	PG	11	C146 10G003 500 4	26,5	33,5	48,0	Housing bulkhead end mounting (incl. gasket)	C146 10F003 004 4	40,0	27,8	26,0
	M	20	C146 10R003 500 4 (gray) C146 16R003 500 4 (bl)	26,5 26,5	33,5 33,5	48,0 48,0					

			C 146 D 15 pol. C 146 A 10 pol.	L lenght in mm	B width in mm	H height in mm	C146 D 25 pol. C146 A 16 pol.	L lenght in mm	B width in mm	H height in mm		C 146 D 50 pol. C 146 A 32 pol.	L lenght in mm	B width in mm	H height in mm
Hood, top entry	Low profile	PG 13,5	C146 10G010 600 4	62,5	29,5	53,0					PG 21	C146 10G032 600 4	82,0	56	75,0
		PG 16	C146 10G010 601 4	62,5	29,5	53,0	C146 10G016 600 4	79,0	29,5	58,0	PG 29	C146 10G032 601 4	82,0	56	75,0
		M 20	C146 21R010 650 4	62,5	29,5	53,0	C146 21R016 650 4	79,0	29,5	58,0	M 25	C146 21R032 650 4	82,0	56	75,0
		M 25	C146 21R 010 600 4	62,5	29,5	53,0	C146 21R016 600 4	79,0	29,5	58,0					
	High profile	PG 16	C146 10G015 601 2	62,5	29,5	64,5	C146 10G025 601 2	79,0	29,5	70,5	M 32	C146 21R032 600 4	82,0	56	75,0
		PG 21	C146 10G015 600 2	62,5	29,5	64,5	C146 10G025 600 2	79,0	29,5	70,5					
		M 20	C146 21R015 650 2	62,5	29,5	64,5	C146 21R025 650 2	79,0	29,5	70,5	M 40	C146 21R032 601 4	82,0	56	75,0
		M 25	C146 21R015 600 2	62,5	29,5	64,5	C146 21R025 600 2	79,0	29,5	70,5					
Hood, side entry	Low profile	PG 13,5	C146 10G010 501 4	62,5	29,5	53,0	C146 10G016 501 4	79,0	29,5	58,0	PG 21	C146 10G032 500 4	82,0	56	75,0
		PG 16	C146 10G010 500 4	62,5	29,5	53,0	C146 10G016 500 4	79,0	29,5	58,0	PG 29	C146 10G032 501 4	82,0	56	75,0
		M 20	C146 21R010 550 4	62,5	29,5	53,0	C146 21R016 550 4	79,0	29,5	58,0	M 25	C146 21R032 550 4	82,0	56	75,0
		M 25	C146 21R010 500 4	62,5	29,5	53,0	C146 21R016 500 4	79,0	29,5	58,0					
	High profile	PG 16	C146 10G015 501 2	62,5	29,5	64,5	C146 10G025 501 2	79,0	29,5	70,5	M 32	C146 21R032 500 4	82,0	56	75,0
		PG 21	C146 10G015 500 2	62,5	29,5	64,5	C146 10G025 500 2	79,0	29,5	70,5					
		M 20	C146 21R015 550 2	62,5	29,5	64,5	C146 21R015 550 2	79,0	29,5	70,5	M 40	C146 21R032 501 4	82,0	56	75,0
		M 25	C146 21R015 500 2	62,5	29,5	64,5	C146 21R015 500 2	79,0	29,5	70,5					
Housing, bulkhead mounting			C146 10F015 000 2	81,0	29,5	26,0	C146 10F025 000 2	96,0	29,5	26,0		C146 10F032 000 4	102,0	57	26,0
												C146 10F032 000 4	102,0	57	26,0

Information: 1) PG housings with stud 2) Metric housings without stud 3) EMI housings are also available
4) For dimensions and panel cut outs please refer C146 main catalog and www.amphenol.info
5) For bulk head mounting housings with cable outlet, coupling housings and housings with cover please refer C146 main catalog and www.amphenol.info
6) Housings with more than one cable outlet are available upon request

Kits C146 E

Screw Termination

Kits consist of insert with contacts, housing and gland bushing for housings with cable outlet

No. of Pos.	PG	Part No.	Component parts	Cable entry	Hood profile	Spring cover
6 POL	16	C146 10E006 943 1	C146 10G006 501 1 C146 10A006 102 1 VN16 160 0014	side	low	
		C146 10E006 944 1	C146 10G006 601 1 C146 10A006 102 1 VN16 160 0014	top	low	
	21	C146 10E006 945 8	C146 10G006 506 8 C146 10A006 102 1 VN16 160 0014	side	high	
		C146 10E006 946 8	C146 10G006 606 8 C146 10A006 102 1 VN16 160 0014	top	high	
	panel	C146 10E006 940 1	C146 10F006 000 1 C146 10B006 102 1			no
		C146 10E006 942 1	C146 10F006 003 1 C146 10B006 102 1			yes
10 POL	21	C146 10E010 943 1	C146 10G010 506 1 C146 10A010 102 1 VN16 160 0014	side	low	
		C146 10E010 944 1	C146 10G010 606 1 C146 10A010 102 1 VN16 160 0014	top	low	
		C146 10E010 945 1	C146 10G010 607 1 C146 10A010 102 1 VN16 160 0014	top	low	
		C146 10E010 946 1	C146 10G010 507 1 C146 10A010 102 1 VN16 160 0014	side	low	
	panel	C146 10E010 941 1	C146 10F010 001 1 C146 10B010 102 1			no
		C146 10E010 942 1	C146 10F010 003 1 C146 10B010 102 1			yes
16 POL	21	C146 10E016 943 1	C146 10G016 506 1 C146 10A016 102 1 VN16 160 0014	side	low	
		C146 10E016 944 1	C146 10G016 606 1 C146 10A016 102 1 VN16 160 0014	top	low	
	panel	C146 10E016 941 1	C146 10F016 001 1 C146 10B016 102 1			no
		C146 10E016 942 1	C146 10F016 003 1 C146 10B016 102 1			yes

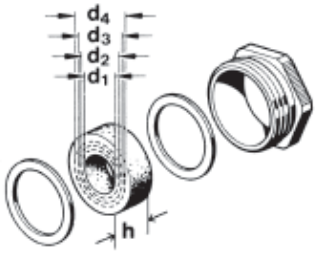
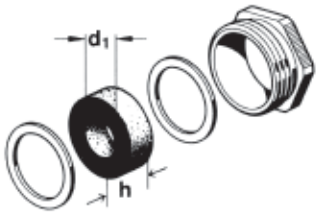
Kits C146 E

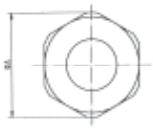
Screw Termination

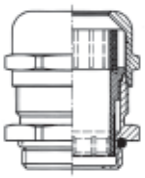
Kits consist of insert with contacts, housing and gland bushing for housings with cable outlet

No. of Pos.	PG	Part No.	Component parts	Cable entry	Hood profile	Spring cover
24 POL	21	C146 10E024 943 8	C146 10G024 500 8 C146 10A024 102 1 VN16 210 0014	side	high	
		C146 10E024 944 8	C146 10G024 600 8 C146 10A024 102 1 VN16 210 0014	top	high	
		C146 10E024 945 1	C146 10G024 500 1 C146 10A024 102 1 VN16 210 0014	side	low	
		C146 10E024 946 1	C146 10G024 600 1 C146 10A024 102 1 VN16 210 0014	top	low	
		C146 10E024 947 8	C146 10G024 506 8 C146 10A024 102 1 VN16 210 0014	side	high	
		C146 10E024 948 8	C146 10G024 606 8 C146 10A024 102 1 VN16 210 0014	top	high	
		C146 10E024 949 1	C146 10G024 506 1 C146 10A024 102 1 VN16 210 0014	side	low	
		C146 10E024 950 1	C146 10G024 606 1 C146 10A024 102 1 VN16 210 0014	top	low	
	29	C146 10E024 951 8	C146 10G024 501 8 C146 10A024 102 1 VN16 210 0014	side	high	
		C146 10E024 952 8	C146 10G024 601 8 C146 10A024 102 1 VN16 210 0014	top	high	
		C146 10E024 953 1	C146 10G024 501 1 C146 10A024 102 1 VN16 210 0014	side	low	
		C146 10E024 954 1	C146 10G024 601 1 C146 10A024 102 1 VN16 210 0014	top	low	
		C146 10E024 955 1	C146 10G024 507 1 C146 10A024 102 1 VN16 210 0014	side	low	
		C146 10E024 956 8	C146 10G024 507 8 C146 10A024 102 1 VN16 210 0014	side	high	
		C146 10E024 957 8	C146 10G024 607 8 C146 10A024 102 1 VN16 210 0014	top	high	
		C146 10E024 958 1	C146 10G024 607 1 C146 10A024 102 1 VN16 210 0014	top	low	
	panel	C146 10E024 940 1	C146 10F024 000 1 C146 10B024 102 1			no
		C146 10E024 941 1	C146 10F024 001 1 C146 10B024 102 1			no
		C146 10E024 942 1	C146 10F024 003 1 C146 10B024 102 1			yes

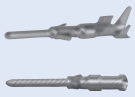
Gland bushings

Gland bushings IP 65	Drawing	PG	M	Pieces	Part No.
Metal, with variable inner diameter		11		10	VN16 110 0014 X (Thermoplast)
			20	10	VN16 200 0114 X (Thermoplast)
		13,5		10	VN16 135 0014 X
		16		10	VN16 160 0014 X
			20	10	VN16 200 0114 X
		21		10	VN16 210 0014 X
			25	10	VN16 250 0114 X
		29		10	VN16 290 0014 X
			32	10	VN16 320 0114 X
		36		10	VN16 360 0014 X
			40	10	VN16 400 0114 X
		42		10	VN16 420 0014 X
			50	10	VN16 500 0114 X
Metal, with standard diameter		11		10	VN16 110 0013 X (Thermoplast)
		13,5		10	VN16 135 0013 X
		16		10	VN16 160 0013 X
		21		10	VN16 210 0013 X
		29		10	VN16 290 0013 X
		36		10	VN16 360 0013 X
		42		10	VN16 420 0013 X

Gland bushing with vibration protection IP 67	Clamping range Ø	A (mm)	PG	M	Pieces	Part No.
	4 - 10 mm	24,4	11		10	VN16 110 0027 X
	4 - 10 mm	20		16	10	VN16 160 0127 X
	5 - 12 mm	26,5	13,5		10	VN16 135 0027 X
	6 - 12 mm	24		20	10	VN16 200 0127 X
	9 - 14 mm	29,5	16		10	VN16 160 0027 X
	9 - 16 mm	28		25	10	VN16 250 0127 X
	13 - 18 mm	36,2	21		10	VN16 210 0027 X
	10 - 21 mm	36		32	10	VN16 320 0127 X
	14 - 25 mm	43,6	29		10	VN16 290 0027 X
	16 - 28 mm	46		40	10	VN16 400 0127 X

Gland bushing EMC IP 68	Clamping range Ø	PG	M	Pieces	Part No.
	4 - 10 mm	11		10	VN16 110 0026 X
	5,5 - 10 mm		16	10	VN16 160 0126 X
	5 - 12 mm	13,5		10	VN16 135 0026 X
	8 - 13 mm		20	10	VN16 200 0126 X
	8 - 14 mm	16		10	VN16 160 0026 X
	11 - 18 mm		25	10	VN16 250 0126 X
	11 - 17,5 mm	21		10	VN16 210 0026 X
	15 - 21 mm		32	10	VN16 320 0126 X
	16 - 25 mm	29		10	VN16 290 0026 X
	19 - 27 mm		40	10	VN16 400 0126 X

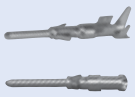
Crimping tools for stamped contacts

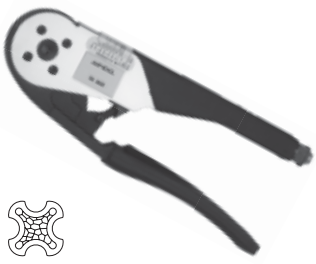


Description	for wire gauge	Part No. Contact locator	Crimping dies	Tools
Removal tool for contacts 	–	–	–	FG 0300 146 1
Service crimping tool Crimping fool for single contacts 	0,14 - 0,5 mm² 0,5 - 1,5 mm²	–	–	TA 0100 146
	0,14 - 0,5 mm² 0,5 - 1,5 mm² 1,5 - 2,5 mm²	TA 0001 146 000 1 TA 0002 146 000 1 TA 0007 146 000 3	TA 0000 202 TA 0000 163 TA 0000 141	TA 0000 TA 0500

[1] Further information see catalogue „Tools“

Hand crimping tool for turned contacts



Description	Contact Ø	for wire gauge	Part No.
incl. contact locator and calibration pin 	1,0 mm	0,10 - 0,5 mm²	TB 0300 146
	1,6 mm	0,14 - 2,5 mm²	TB 0400 146
	2,5 mm (wiht clip)	0,5 - 4 mm²	TB 0100 146
	2,5 mm (wihtout clip)	0,5 - 4 mm²	TB 0600 146
	3,6 mm (wiht clip)	1,5 - 10 mm²	TB 0200 146
	3,6 mm (wihtout clip)	1,5 - 10 mm²	TB 0100 148
4-Indent hand crimping tool for turned contacts 	1,6 mm LWL		TB 0500 146

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
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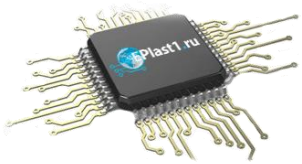
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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