

Amphenol

Rectangular Interconnects

C146A Heavy Duty Industrial Screw Terminal Connector Inserts

Contacts & Electrical Rating

No of Contacts	- Electrical Rating
3/4 + PE	- 18 A @ 400 V
10 + PE	- 16 A @ 250 V
16 + PE	- 14 A @ 250 V
32 + PE	- 14 A @ 250 V

Termination

Termination Method-	Screw
Wire Gauge	- 0.25 – 2.5 mm ²

Materials

Insert

3/4 + PE	- PA
10 + PE	- PPO
16 + PE	- PPO
32 + PE	- PPO
Colour	- Grey

Screw Terminal

Contacts	- Brass
Contact Plating	- Silver

Climatic

Temp Range	- -40°C / +100°C
Lower Temp	- -40°C / 16 h
Upper Temp	- +100°C / 1000 h

Mechanical

Mating Cycles	- + 500 Cycles
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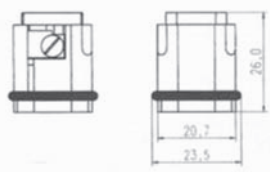
A Complete Connector includes Housing (Base & Hood) pg K-5/K-6 and Insert on This Page

Mating Halves

Male Insert

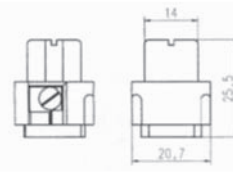
Female Insert

3 + PE



Part Number

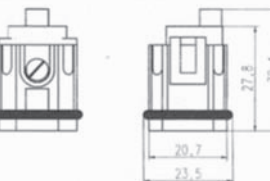
C146 10A003 002 4



Part Number

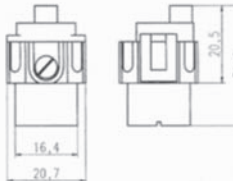
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4 + PE



Part Number

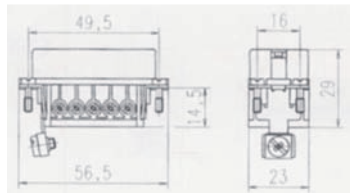
C146 10A004 002 4



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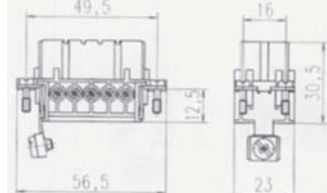
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10 + PE



Part Number

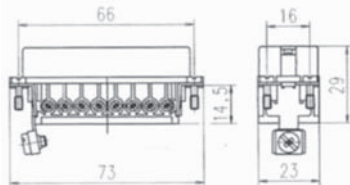
C146 10A010 102 4



Part Number

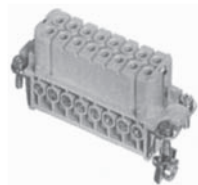
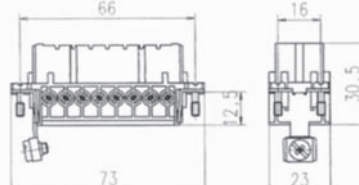
C146 10B010 102 4

16 + PE



Part Number

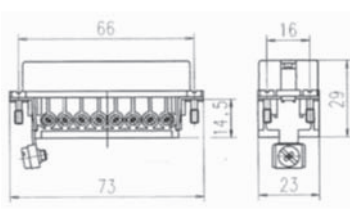
C146 10A016 102 4



Part Number

C146 10B016 102 4

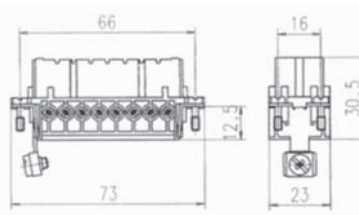
32 + PE (2x16 + PE) Both part numbers mentioned must be ordered



Part Number

C146 10A016 102 4
C146 10A016 104 4

Marked 1-16
Marker 17-32



Part Number

C146 10B016 102 4
C146 10B016 104 4

Marked 1-16
Marker 17-32

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Rectangular Interconnects

C146E Heavy Duty Industrial Screw Terminal Connector Inserts

Contacts & Electrical Rating

No of Contacts	- Electrical Rating
6 + PE	- 22 A @ 400 V
10 + PE	- 19 A @ 400 V
16 + PE	- 19 A @ 400 V
24 + PE	- 18 A @ 400 V
48 + PE	- 18 A @ 400 V
Termination Method- Screw or Crimp	

Wire Gauge

Screw	- 0.25 – 2.5 mm ²
Crimp	- 0.5 – 4 mm ²

Materials


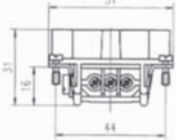
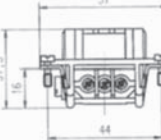
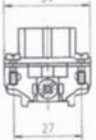


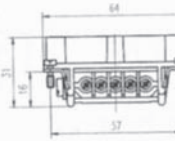
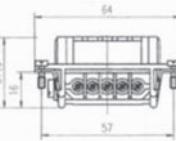
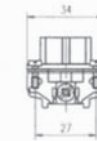


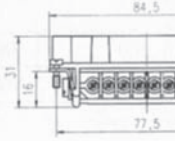
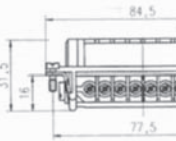
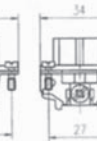


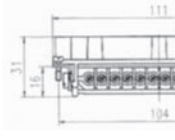
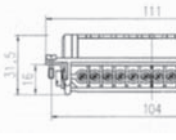
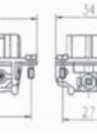


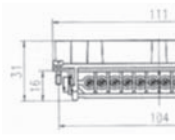
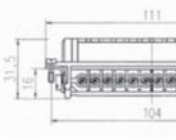


Insert	- Polycarbonate
Colour	- Grey
Screw Terminal	
Contacts	- Brass
Contact Plating	- Silver
Stamped Crimp Contacts	
Male Contact	- Brass
Female Contact	- Tin Bronze
Contact Plating	- Silver

Materials Contd.

Turned Crimp Contacts	
Male Contact	- Brass
Female Contact	- Brass
Contact Plating	- Silver
Climatic	
Temp Range	- -40°C / +125°C
Lower Temp	- -40°C / 16 h
Upper Temp	- +125°C / 1000 h
Mechanical	
Mating Cycles	- + 500 Cycles

A Complete Connector includes Housing (Base & Hood) pg K-5/K-6 and Insert on *This Page*

Mating Halves

Male Insert		6 + PE		Female Insert	
					
Part Number	C146 10A006 102 1	Part Number	C146 10B006 102 1		
10 + PE					
					
Part Number	C146 10A010 102 1	Part Number	C146 10B010 102 1		
16 + PE					
					
Part Number	C146 10A016 102 1	Part Number	C146 10B016 102 1		
24 + PE					
					
Part Number	C146 10A024 102 1	Part Number	C146 10B024 102 1		
48 + PE (2x24 + PE) Both part numbers mentioned must be ordered					
					
Part Number	C146 10A024 102 1	Marked 1-24	Part Number	C146 10B024 102 1	Marked 1-24
	C146 10A024 104 1	Marker 25-48		C146 10B024 104 1	Marker 25-48

ATE

C146M Heavy Duty Industrial Modular Frames

Contacts & Electrical Rating

Rated Voltage	- 63V/1000 V
Rated Current	- 5A/70A
Contacts	- 3 - 280
Types of Contacts	- Power
	- Signal
	- Co-axial
	- Fibre-Optic
Termination Method	- Crimp / Solder
Wire Gauge	
Crimp	- 0.5 – 4 mm ²
Mechanical	
Mating Cycles	- + 500 Cycles

Materials

Frames	
Insert	- Polycarbonate
Colour	- Grey
Modules	
Inserts	- PC or PA 6.6 GF
Colour	- Grey or Black
Stamped Crimp Contacts	
Male Contact	- Silver over Brass
Female Contact	- Tin Bronze / Silver
Turned Crimp Contacts	
Male Contact	- Silver over Brass
Female Contact	- Silver over Brass

Materials Continued

Co-axial Contacts	
Male Contact	- Silver over Brass
Female Contact	- Silver over Brass
* Gold Plated Contacts Available on Request	
Fibre Optic Contacts	
Male Contact	
Female Contact	
Climatic	
Temp Range	- -40°C / +125°C
Lower Temp	- -40°C / 16 h
Upper Temp	- +125°C / 1000 h


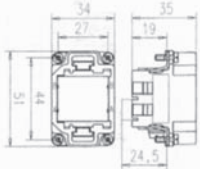
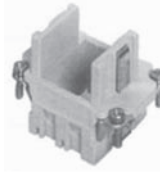
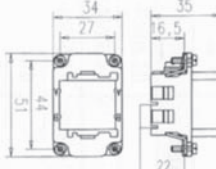
A complete Connector includes Housing (Base & Hood) pg K-5/K-6; Frame (This Page); Module & Contacts pg K-10/K-11

Mating Halves


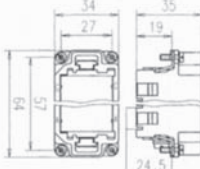


Frame for Pin Modules

Frame for Socket Modules


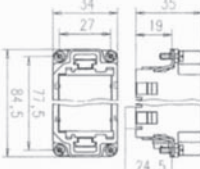

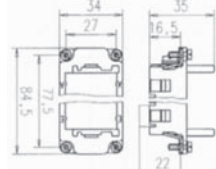
Frames for 2 Modules

 	Part Number	C146 10P006 000 8	1 Permanent Earth	 	Part Number	C146 10S006 000 8	1 Permanent Earth
		C146 10P006 060 8	2 Permanent Earth			C146 10S006 060 8	2 Permanent Earth

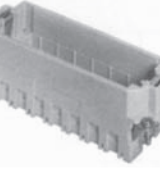
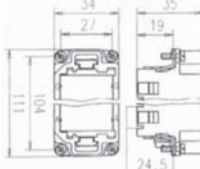


Frames for 3 Modules

 	Part Number	C146 10P010 000 8	1 Permanent Earth	 	Part Number	C146 10S010 000 8	1 Permanent Earth
		C146 10P010 060 8	2 Permanent Earth			C146 10S010 060 8	2 Permanent Earth

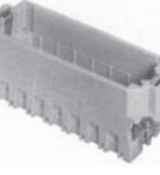



Frames for 5 Modules

 	Part Number	C146 10P016 000 8	1 Permanent Earth	 	Part Number	C146 10S016 000 8	1 Permanent Earth
		C146 10P016 060 8	2 Permanent Earth			C146 10S016 060 8	2 Permanent Earth

Frames for 7 Modules

 	Part Number	C146 10P024 000 8	1 Permanent Earth	 	Part Number	C146 10S024 000 8	1 Permanent Earth
		C146 10P024 060 8	2 Permanent Earth			C146 10S024 060 8	2 Permanent Earth

Frames for 14 Modules (2x7 Modules)


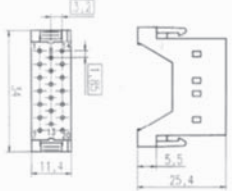

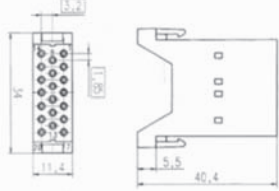


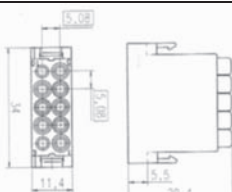
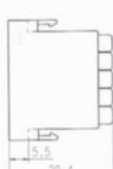
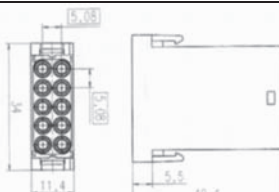


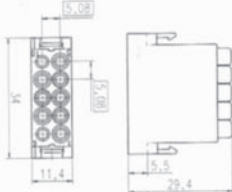
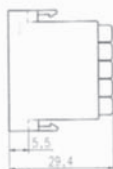
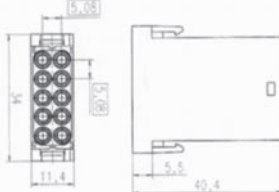


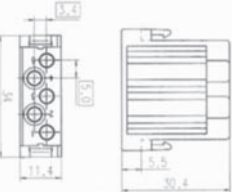

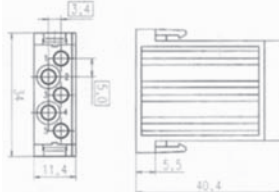
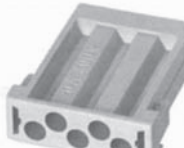
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Rectangular Interconnects

C146M Heavy Duty Industrial Modules

A complete Connector includes Housing (Base & Hood) pg K-5/K-6; Frame pg K-9; Module & Contacts *This Page & K-11*


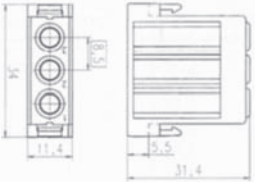
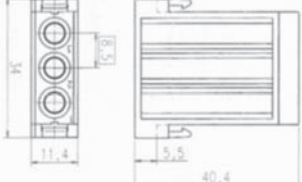

Mating Halves					
Pin Modules			Socket Modules		
20 Pole – For Stamped 1.0 mm Contacts					
					
Part Number	C146 10A020 000 8		Part Number	C146 10B020 000 8	
Contacts and terminating solutions for above Modules					
<i>For Crimping Tool requirements consult Representative</i>			<i>For Crimping Tool requirements consult Representative</i>		
Part Number: Pin Contacts	AWG (mm²)		Part Number: Socket Contacts	AWG (mm²)	
17RR D2M 11 100	28 – 24 (0.09 – 0.25)		17RR D2F 11 100	28 – 24 (0.09 – 0.25)	
17RR D1M 11 100	24 – 20 (0.25 – 0.5)		17RR D1F 11 100	24 – 20 (0.25 – 0.5)	
10 Pole – For Stamped 1.6 mm Contacts					
					
Part Number	C146 10A010 000 8		Part Number	C146 10B010 000 8	
Contacts and terminating solutions for above Modules					
<i>For Crimping Tool requirements consult Representative</i>			<i>For Crimping Tool requirements consult Representative</i>		
Part Number: Pin Contacts	AWG (mm²)		Part Number: Socket Contacts	AWG (mm²)	
VN01 016 0003 (1)	26 – 20 (0.14 – 0.5)		VN02 016 0003 (1)	26 – 20 (0.14 – 0.5)	
VN01 016 0002 (1)	20 – 16 (0.5 – 1.5)		VN02 016 0002 (1)	20 – 16 (0.5 – 1.5)	
VN01 016 0005 (1)	16 – 14 (1.5 – 2.5)		VN02 016 0005 (1)	16 – 14 (1.5 – 2.5)	
10 Pole – For Turned 1.6 mm Contacts					
					
Part Number	C146 10A010 500 8		Part Number	C146 10B010 500 8	
Contacts and terminating solutions for above Modules					
<i>For Crimping Tool requirements consult Representative</i>			<i>For Crimping Tool requirements consult Representative</i>		
Part Number: Pin Contacts	AWG (mm²)		Part Number: Socket Contacts	AWG (mm²)	
VN01 016 0024 (1)C	26 – 22 (0.14 – 0.37)		VN02 016 0024 (1)C	26 – 22 (0.14 – 0.37)	
VN01 016 0025 (1)C	20 (0.5)		VN02 016 0025 (1)C	20 (0.5)	
VN01 016 0026 (1)C	20 – 16 (0.75 – 1.0)		VN02 016 0026 (1)C	20 – 16 (0.75 – 1.0)	
VN01 016 0027 (1)C	16 – 15 (1.5)		VN02 016 0027 (1)C	16 – 15 (1.5)	
VN01 016 0028 (1)C	14 (2.5)		VN02 016 0028 (1)C	14 (2.5)	
VN01 016 0040 8X	1.0 mm Fibre Optic		VN02 016 0040 8X	1.0 mm Fibre Optic	
5 Pole – For Turned 2.5 mm Contacts					
					
Part Number	C146 10A005 500 8	Standard	Part Number	C146 10B005 500 8	Standard
	C146 A05 001 E8	400V Black		C146 B05 001 E8	400V Black
Contacts and terminating solutions for above Modules					
<i>For Crimping Tool requirements consult Representative</i>			<i>For Crimping Tool requirements consult Representative</i>		
Part Number: Pin Contacts	AWG (mm²)		Part Number: Socket Contacts	AWG (mm²)	
VN01 025 0029 (1)C	20 (0.5)		VN02 025 0029 (1)C	20 (0.5)	
VN01 025 0030 (1)C	18 (0.75 – 1.0)		VN02 025 0030 (1)C	18 (0.75 – 1.0)	
VN01 025 0031 (1)C	16 (1.5)		VN02 025 0031 (1)C	16 (1.5)	
VN01 025 0032 (1)C	14 (2.5)		VN02 025 0032 (1)C	14 (2.5)	
VN01 025 0033 (1)C	12 (4.0)		VN02 025 0033 (1)C	12 (4.0)	

Amphenol

Rectangular Interconnects

C146M Heavy Duty Industrial Modules

A complete Connector includes Housing (Base & Hood) pg K-5/K-6; Frame pg K-9; Module & Contacts K-10 & This Page
Mating Halves

Pin Modules		Socket Modules	
3 Pole – For Turned 3.6mm Contacts			
			

Part Number **C146 10A003 500 8**


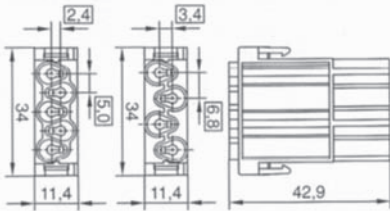
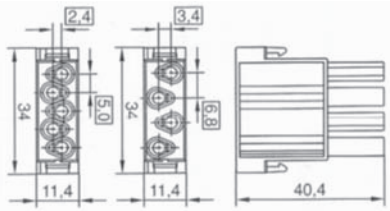

Part Number **C146 10B003 500 8**

Contacts and terminating solutions for above Modules

For Crimping Tool requirements consult Representative

Part Number: Pin Contacts	AWG (mm ²)	Part Number: Socket Contacts	AWG (mm ²)
VN01 036 0004 (1)C	16 (1.5)	VN02 036 0004 (1)C	16 (1.5)
VN01 036 0005 (1)C	14 (2.5)	VN02 036 0005 (1)C	14 (2.5)
VN01 036 0001 (1)C	12 (4.0)	VN02 036 0001 (1)C	12 (4.0)
VN01 036 0002 (1)C	10 (6.0)	VN02 036 0002 (1)C	10 (6.0)
VN01 036 0003 (1)C	8 (10.0)	VN02 036 0003 (1)C	8 (10.0)

4 Pole, 4 Pole + PE & 5 Pole – For Stamped 2.5 mm Contacts

			
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Part Number **C146 C04 001 E8** 4 Pole
C146 D05 001 E8 4 Pole + PE
C146 D05 801 E8 5 Pole

Part Number **C146 C04 001 E8** 4 Pole
C146 D05 001 E8 4 Pole + PE
C146 D05 801 E8 5 Pole

Contacts and terminating solutions for above Modules

For Crimping Tool requirements consult Representative

Part Number: Pin Contacts	AWG (mm ²)	Part Number: Socket Contacts	AWG (mm ²)
VN01 025 0001 (101)	20 – 16 (0.5 – 1.5)	VN02 025 0001 (101)	20 – 16 (0.5 – 1.5)
VN01 025 0010 (101)	16 – 14 (1.5 – 2.5)	VN02 025 0010 (101)	16 – 14 (1.5 – 2.5)
VN01 025 0043 (1)	12 (2.5 – 4.0)	VN02 025 0043 (1)	12 (2.5 – 4.0)

3 Pole – For Turned 3.6 mm Contacts

			
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Part Number **C146 A03 801 E8**


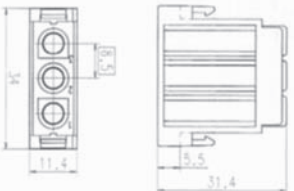
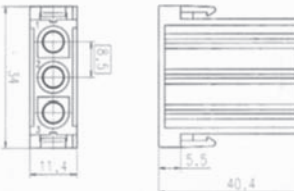
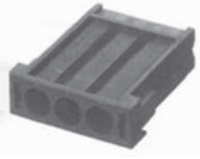
Part Number **C146 B03 801 E8**

Contacts and terminating solutions for above Modules

For Crimping Tool requirements consult Representative

Part Number: Pin Contacts	AWG (mm ²)	Part Number: Socket Contacts	AWG (mm ²)
VN01 036 0004 (1)C	16 (2.5)	VN01 036 0004 (1)C	16 (2.5)
VN01 036 0005 (1)C	14 (4.0)	VN01 036 0005 (1)C	14 (4.0)
VN01 036 0001 (1)C	12 (4.0)	VN01 036 0001 (1)C	12 (4.0)
VN01 036 0002 (1)C	10 (6.0)	VN01 036 0002 (1)C	10 (6.0)
VN01 036 0003 (1)C	8 (10.0)	VN01 036 0003 (1)C	8 (10.0)

3 Pole Coax – For Coaxial Contacts

			
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Part Number **C146 A03 501 E8**

Part Number **C146 B03 501 E8**

Contacts and terminating solutions for above Modules

For Crimping Tool requirements consult Representative

Part Number: Pin Contacts	RF cable	Part Number: Socket Contacts	RF cable
17 DM 537 401	RG174, RG179, RG316	17 DM 537 421	RG174, RG179, RG316
17 DM 537 405	RG58	17 DM 537 425	RG58