

# Amphenol

Amphenol-Tuchel Electronics GmbH

## Series C 146

Heavy Duty Connectors  
Core Programme



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### **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.*

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# C 146

## Characteristics







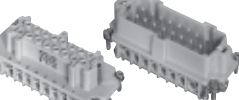

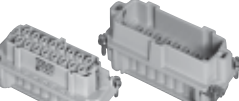
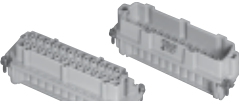


| Series                              | C 146 D    |           |           |           |           |           |            | C 146 DD                            |           |           |            | C 146 E                               |                                       |  |  |   | C 146 EE  |           |           |           |
|-------------------------------------|------------|-----------|-----------|-----------|-----------|-----------|------------|-------------------------------------|-----------|-----------|------------|---------------------------------------|---------------------------------------|--|--|---|-----------|-----------|-----------|-----------|
| Number of contacts                  | 7+PE,<br>8 | 15+<br>PE | 25+<br>PE | 40+<br>PE | 50+<br>PE | 64+<br>PE | 128+<br>PE | 24+<br>PE                           | 42+<br>PE | 72+<br>PE | 108+<br>PE | 6 +                                   | 10 +                                  | 16 +                                   | 24 +                                     | 48 +                                      | 10+<br>PE | 18+<br>PE | 32+<br>PE | 46+<br>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 <sup>1</sup> : 20-30<br>CR: 10-20 | SCR <sup>1</sup> : 40-50<br>CR: 30-40 | SCR <sup>1</sup> : 80-100<br>CR: 45-60 | SCR <sup>1</sup> : 100-120<br>CR: 70-100 | SCR <sup>1</sup> : 200-240<br>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      |           |           |           |

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

# C 146 EE

## Inserts

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

<sup>1)</sup> For versions without wire protection please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

<sup>2)</sup> For 48 pol version please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

# C 146 E / C 146 EE







Contacts<sup>1)</sup>

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

<sup>1)</sup> For gold plated contacts please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

# C 146 A

Inserts

| Description - Figure   | Part No.  |   | Description - Figure   | Part No.  |   |
|--|---|---|--|---|---|
|  | Male insert   | Female insert   |  | Male insert   | Female insert   |
| Contact insert screw termination<br>3+PE<br>  | C146 10A003 002 4   | C146 10B003 002 4   | Contact insert screw termination<br>4+PE<br>                | C146 10A004 002 4   | C146 10B004 002 4   |
| Contact insert screw termination<br>10+PE<br> | C146 10A010 102 4 <sup>2)</sup><br>(with wire protection) | C146 10B010 102 4 <sup>2)</sup><br>(with wire protection) | Contact insert screw termination<br>16+PE <sup>3)</sup><br> | C146 10A016 102 4 <sup>2)</sup><br>(with wire protection) | C146 10B016 102 4 <sup>2)</sup><br>(with wire protection) |

<sup>2)</sup> For versions without wire protection please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

<sup>3)</sup> For 32 pol versions please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

# C 146 M

## Frames

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

# C 146 M

## Modules Contacts

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

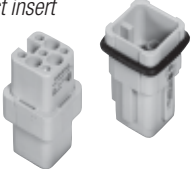
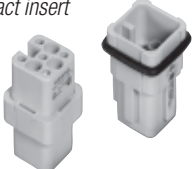
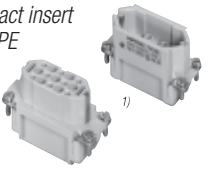
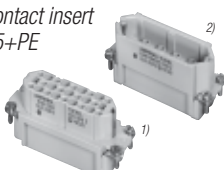
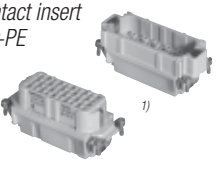
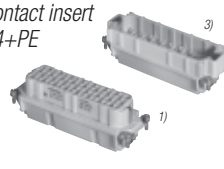
| Description - Figure   | Part No.   |                               | Turned crimp contacts |                                |   |        |                                  |                                  | silver plating    |  |
|--|--|-------------------------------|-----------------------|--------------------------------|---|--------|----------------------------------|----------------------------------|-------------------|--|
|  | pin module   | socket module                 | Supplied as           | for wire gauge                 | AWG   | Pieces | Male contacts                    | Female contacts                  |                   |  |
| 5 contacts for turned contacts<br>                | C146 A05 001 E8 <sup>1)</sup>  | C146 B05 001 E8 <sup>1)</sup> | Single contact        | 0,5 mm <sup>2</sup>            | 20  | 100    | VN01 025 0029 (1)C               | VN02 025 0029 (1)C               |                   |  |
|  |  |                               |                       | 0,75 - 1,0 mm <sup>2</sup>     | 18  | 100    | VN01 025 0030 (1)C               | VN02 025 0030 (1)C               |                   |  |
|  |  |                               |                       | 1,5 mm <sup>2</sup>            | 16  | 100    | VN01 025 0031 (1)C               | VN02 025 0031 (1)C               |                   |  |
|  |  |                               |                       | 2,5 mm <sup>2</sup>            | 14  | 100    | VN01 025 0032 (1)C               | VN02 025 0032 (1)C               |                   |  |
|  |  |                               |                       | 4,0 mm <sup>2</sup>            | 12  | 100    | VN01 025 0033 (1)C               | VN02 025 0033 (1)C               |                   |  |
| 3 contacts for turned contacts<br>                | C146 A03 001 E8  | C146 B03 001 E8               | Single contact        | <b>Turned crimp contacts</b>   |   |        |                                  |                                  |                   |  |
|  |  |                               |                       | 1,5 mm <sup>2</sup>            | 16  | 100    | VN01 036 0004 (1)C               | VN02 036 0004 (1)C               |                   |  |
|  |  |                               |                       | 2,5 mm <sup>2</sup>            | 14  | 100    | VN01 036 0005 (1)C               | VN02 036 0005 (1)C               |                   |  |
|  |  |                               |                       | 4,0 mm <sup>2</sup>            | 12  | 100    | VN01 036 0001 (1)C               | VN02 036 0001 (1)C               |                   |  |
|  |  |                               |                       | 6,0 mm <sup>2</sup>            | 10  | 100    | VN01 036 0002 (1)C <sup>1)</sup> | VN02 036 0002 (1)C <sup>1)</sup> |                   |  |
| 5 contacts for stamped contacts<br>               | C146 D04 001 E8 (4 pol)  | C146 C04 001 E8 (4 pol)       |                       | <b>Stamped single contacts</b> |   |        |                                  |                                  |                   |  |
|  |  |                               |                       | 0,5 - 1,5 mm <sup>2</sup>      | 20-16   | 100    | VN01 025 0001 (101)              | VN02 025 0001 (101)              |                   |  |
|  |  |                               |                       | 1,5 - 2,5 mm <sup>2</sup>      | 16-14   | 100    | VN01 025 0010 (101)              | VN02 025 0010 (101)              |                   |  |
|  | C146 D05 001 E8 (4 + PE)   | C146 C05 001 E8 (4 + PE)      |                       |                                | <b>Contacts on reel for hand crimping tools</b> |        |                                  |                                  |                   |  |
|  |  |                               |                       |                                | 0,5 - 1,5 mm <sup>2</sup>                       | 20-16  | 200                              | ZN01 025 0001 (1)                | ZN02 025 0001 (1) |  |
|  | C146 D05 801 E8 (5 pol)  | C146 C05 801 E8 (5 pol)       |                       |                                | <b>Contacts on reel for crimp machines</b>      |        |                                  |                                  |                   |  |
|  |  |                               |                       |                                | 1,5 - 2,5 mm <sup>2</sup>                       | 16-14  | 2000                             | TN01 025 0010 (1)                | TN02 025 0010 (1) |  |
|  | 3 contacts for coax contacts<br> | C146 A03 501 E8               | C146 B03 501 E8       | Single contact                 | <b>Crimp contacts for cable size</b>            |        |                                  |                                  |                   |  |
|  |  |                               |                       |                                | 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<br>              | C146 A03 801 E8  | C146 B03 801 E8               | Single contact        | <b>Turned crimp contacts</b>   |   |        |                                  |                                  |                   |  |
|  |  |                               |                       | 1,5 mm <sup>2</sup>            | 16  | 100    | VN01 036 0004 (1) C              | VN02 036 0004 (1) C              |                   |  |
|  |  |                               |                       | 2,5 mm <sup>2</sup>            | 14  | 100    | VN01 036 0005 (1) C              | VN02 036 0005 (1) C              |                   |  |
|  |  |                               |                       | 4,0 mm <sup>2</sup>            | 12  | 100    | VN01 036 0001 (1) C              | VN02 036 0001 (1) C              |                   |  |
|  |  |                               |                       | 6,0 mm <sup>2</sup>            | 10  | 100    | VN01 036 0002 (1) C              | VN02 036 0002 (1) C              |                   |  |
| <i>RJ module</i><br>                            | C146 E12 001 E8  | C146 F12 001 G8               |                       | <b>Turned crimp contacts</b>   |   |        |                                  |                                  |                   |  |
|  |  |                               |                       | 0,14 - 0,37 mm <sup>2</sup>    | 26-22   | 100    | VN01 016 0024 (1) C              | VN02 016 0024 (1) C              |                   |  |
|  |  |                               |                       | 0,5 mm <sup>2</sup>            | 20  | 100    | VN01 016 0025 (1) C              | VN02 016 0025 (1) C              |                   |  |
|  |  |                               |                       | 0,75 - 1,0 mm <sup>2</sup>     | 20-16   | 100    | VN01 016 0026 (1) C              | VN02 016 0026 (1) C              |                   |  |
|  |  |                               |                       | 1,5 mm <sup>2</sup>            | 16-15   | 100    | VN01 016 0027 (1) C              | VN02 016 0027 (1) C              |                   |  |
| <i>Pneumatic module, 1 or 2 connections</i><br> | 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)      |                       |                                |   |        |                                  |                                  |                   |  |

<sup>1)</sup> For gold plated contacts please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info).

<sup>2)</sup> For right feeding contacts please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info).

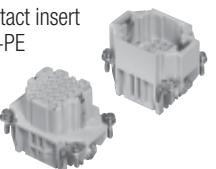
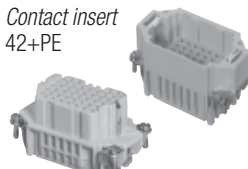
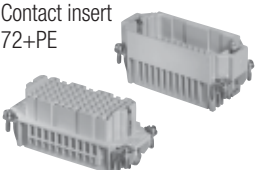
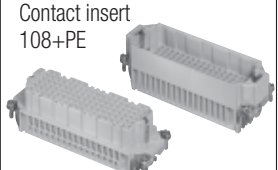
# C 146 D

## Inserts

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

# C 146 DD

## Inserts

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

# C 146 D / C 146 DD



## Contacts<sup>4)</sup>

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

<sup>1)</sup> For versions with two PE contacts please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

<sup>2)</sup> For 50 pol versions please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

<sup>3)</sup> For 128 pol versions please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)

<sup>4)</sup> For gold plated contacts please refer C146 main catalog or [www.amphenol.info](http://www.amphenol.info)



# C 146 D / C 146 DD



Contacts<sup>1)</sup>

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

<sup>1)</sup> For gold plated contacts please refer C146 main catalog or [www.amphenol.info](http://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  |                   |
| <b>Climatical Characteristics</b> |            |  |    |   |                   |
| Climatic category                 |            | IEC 60068 - 1  |    | 40/100/21   |                   |
| Temperature range                 |            | IEC 60068 - 1  |    | -40°C/+100°C  |                   |
| <b>Materials</b>                  |            |  |    |   |                   |
| 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.<br>C 146 M 2 Module<br>C 146 DD 24 pol.<br>C 146 EE 10 pol. |    | C 146 E 10 pol.<br>C 146 M 3 Module<br>C 146 DD 42 pol.<br>C 146 EE 18 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.<br>C 146 M 2 Module<br>C 146 DD 24 pol.<br>C 146 EE 10 pol. | L<br>length in mm | B<br>width in mm  | H<br>height in mm        | C 146 E 10 pol.<br>C 146 M 3 Module<br>C 146 DD 42 pol.<br>C 146 HvE 3 pol.<br>C 146 EE 18 pol. | L<br>length in mm | B<br>width in mm  | H<br>height in mm | C 146 E 16 pol.<br>C 146 M 5 Module<br>C 146 D 40 pol.<br>C 146 DD 72 pol.<br>C 146 HSE 6pol.<br>C 146 EE 32 pol. | L<br>length in mm | B<br>width in mm  | H<br>height in mm | C 146 E 24 pol.<br>C 146 M 7 Module<br>C 146 D 64 pol.<br>C 146 DD 108 pol.<br>C 146 HvE 10 pol.<br>C 146 EE 46 pol. | L<br>length in mm | B<br>width in mm  | H<br>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              |    |      |
|                              | 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              |    |      |
|                              | Low profile  | 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              |    |      |
|                              | High profile | M  | 20                |                   |                          | C146 21R010 650 8   | 73,0              | 43                | 70,0              |   |                   |                   |                   |  |                   |                   |                   |    |      |
|                              |              |  | 25                |                   |                          | 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              |    |      |
| Hood, side entry             | Low profile  | PG   | 16                |                   |                          | C146 10G010 501 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              |    |      |
|                              | 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              |    |      |
|                              | Low profile  | 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              |    |      |
|                              | High profile | M  | 20                |                   |                          | C146 21R010 550 8   | 73,0              | 43                | 70,0              |   |                   |                   |                   |  |                   |                   |                   |    |      |
|                              |              |  | 25                |                   |                          | 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              |    |      |
| 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              |                   |                   |  |                   |                   |                   |    |      |
|                              | High profile | PG   | 16                |                   |                          | C146 10G010 607 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              |    |      |
|                              | Low profile  | 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              |                   |                   |  |                   |                   |                   |    |      |
|                              | High profile | M  | 20                | 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 |
|                              |              |  | 25                | C146 21R006 607 1 | 60,0                     | 43  | 51,0              | 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 |
|                              | Low 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 |
|                              | High profile | PG   | 21                | 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 |
|                              |              |  | 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 |
|                              | Low profile  | M  | 20                | 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 |
|                              |              |  | 25                | C146 21R006 606 8 | 60,0                     | 43  | 70,0              | 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](http://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](http://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<br><br>      | 16    | C146 10E006 943 1 | C146 10G006 501 1<br>C146 10A006 102 1<br>VN16 160 0014 | side        | low          |              |
|  |       | C146 10E006 944 1 | C146 10G006 601 1<br>C146 10A006 102 1<br>VN16 160 0014 | top         | low          |              |
|  | 21    | C146 10E006 945 8 | C146 10G006 506 8<br>C146 10A006 102 1<br>VN16 160 0014 | side        | high         |              |
|  |       | C146 10E006 946 8 | C146 10G006 606 8<br>C146 10A006 102 1<br>VN16 160 0014 | top         | high         |              |
|   | panel | C146 10E006 940 1 | C146 10F006 000 1<br>C146 10B006 102 1                  |             |              | no           |
|  |       | C146 10E006 942 1 | C146 10F006 003 1<br>C146 10B006 102 1                  |             |              | yes          |
| 10 POL<br><br>  | 21    | C146 10E010 943 1 | C146 10G010 506 1<br>C146 10A010 102 1<br>VN16 160 0014 | side        | low          |              |
|  |       | C146 10E010 944 1 | C146 10G010 606 1<br>C146 10A010 102 1<br>VN16 160 0014 | top         | low          |              |
|  |       | C146 10E010 945 1 | C146 10G010 607 1<br>C146 10A010 102 1<br>VN16 160 0014 | top         | low          |              |
|  |       | C146 10E010 946 1 | C146 10G010 507 1<br>C146 10A010 102 1<br>VN16 160 0014 | side        | low          |              |
|   | panel | C146 10E010 941 1 | C146 10F010 001 1<br>C146 10B010 102 1                  |             |              | no           |
|  |       | C146 10E010 942 1 | C146 10F010 003 1<br>C146 10B010 102 1                  |             |              | yes          |
| 16 POL<br><br> | 21    | C146 10E016 943 1 | C146 10G016 506 1<br>C146 10A016 102 1<br>VN16 160 0014 | side        | low          |              |
|  |       | C146 10E016 944 1 | C146 10G016 606 1<br>C146 10A016 102 1<br>VN16 160 0014 | top         | low          |              |
|   | panel | C146 10E016 941 1 | C146 10F016 001 1<br>C146 10B016 102 1                  |             |              | no           |
|  |       | C146 10E016 942 1 | C146 10F016 003 1<br>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<br><br> | 21  | C146 10E024 943 8 | C146 10G024 500 8<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | high         |              |
|  |   | C146 10E024 944 8 | C146 10G024 600 8<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | high         |              |
|  |   | C146 10E024 945 1 | C146 10G024 500 1<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | low          |              |
|  |   | C146 10E024 946 1 | C146 10G024 600 1<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | low          |              |
|  |   | C146 10E024 947 8 | C146 10G024 506 8<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | high         |              |
|  |   | C146 10E024 948 8 | C146 10G024 606 8<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | high         |              |
|  |   | C146 10E024 949 1 | C146 10G024 506 1<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | low          |              |
|  |   | C146 10E024 950 1 | C146 10G024 606 1<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | low          |              |
|  | 29  | C146 10E024 951 8 | C146 10G024 501 8<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | high         |              |
|  |   | C146 10E024 952 8 | C146 10G024 601 8<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | high         |              |
|  |   | C146 10E024 953 1 | C146 10G024 501 1<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | low          |              |
|  |   | C146 10E024 954 1 | C146 10G024 601 1<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | low          |              |
|  |   | C146 10E024 955 1 | C146 10G024 507 1<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | low          |              |
|  |   | C146 10E024 956 8 | C146 10G024 507 8<br>C146 10A024 102 1<br>VN16 210 0014 | side                                   | high         |              |
|  |   | C146 10E024 957 8 | C146 10G024 607 8<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | high         |              |
|  |   | C146 10E024 958 1 | C146 10G024 607 1<br>C146 10A024 102 1<br>VN16 210 0014 | top                                    | low          |              |
|  |  | panel             | C146 10E024 940 1                                       | C146 10F024 000 1<br>C146 10B024 102 1 |              |              |
| C146 10E024 941 1  |   |                   | C146 10F024 001 1<br>C146 10B024 102 1                  |  |              | no           |
| C146 10E024 942 1  |   |                   | C146 10F024 003 1<br>C146 10B024 102 1                  |  |              | yes          |

# Gland bushings



| Gland bushings IP 65   | Drawing  | PG   | M  | Pieces | Part No.                      |
|--|--|------|----|--------|-------------------------------|
| Metal, with variable inner diameter<br> |   | 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<br>       |  | 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<br>                                  | –  | –   | –   | FG 0300 146 1      |
| Service crimping tool<br>Crimping tool for single contacts<br> | 0,14 - 0,5 mm <sup>2</sup><br>0,5 - 1,5 mm <sup>2</sup>                              | –   | –   | TA 0100 146        |
|   | 0,14 - 0,5 mm <sup>2</sup><br>0,5 - 1,5 mm <sup>2</sup><br>1,5 - 2,5 mm <sup>2</sup> | TA 0001 146 000 1<br>TA 0002 146 000 1<br>TA 0007 146 000 3 | TA 0000 202<br>TA 0000 163<br>TA 0000 141 | TA 0000<br>TA 0500 |

<sup>1)</sup> 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<br>       | 1,0 mm<br>1,6 mm<br>2,5 mm (with clip)<br>2,5 mm (without clip)<br>3,6 mm (with clip)<br>3,6 mm (without clip) | 0,10 - 0,5 mm <sup>2</sup><br>0,14 - 2,5 mm <sup>2</sup><br>0,5 - 4 mm <sup>2</sup><br>0,5 - 4 mm <sup>2</sup><br>1,5 - 10 mm <sup>2</sup><br>1,5 - 10 mm <sup>2</sup> | TB 0300 146<br>TB 0400 146<br>TB 0100 146<br>TB 0600 146<br>TB 0200 146<br>TB 0100 148<br>TB 0500 146 |
| 4-Indent hand crimping tool for turned contacts<br> | 1,6 mm LWL   |  |   |

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