

heavy|mate® - C146 A Contact insert screw termination 3 + PE, female insert



Part No. C146 10B003 002 4

Series Heavy duty connectors heavy|mate® - C 146  
Subseries Heavy duty connector heavy|mate® - C146 A

View represents all available contact positions.

| COMMON CHARACTERISTICS     |                                                |                            |
|----------------------------|------------------------------------------------|----------------------------|
| No. of contacts            |                                                | 3 + PE                     |
| Weight male insert         |                                                | 13 g                       |
| Weight female insert       |                                                | 13 g                       |
| ELECTRICAL CHARACTERISTICS |                                                |                            |
| Rated voltage              | DIN EN 60664-1 / IEC 60664-1                   | 400V                       |
| Rated impulse voltage      | DIN EN 60664-1 / IEC 60664-1                   | 4000V                      |
| Rated current at 40°C      |                                                | 18 A                       |
| Voltage proof              | DIN EN 60512-2, Test 4a / IEC 60512-2, Test 4a | 2.800 V                    |
| Installation category      | DIN EN 60664-1 / IEC 60664-1                   | III                        |
| Insulation group           | DIN EN 60664-1 / IEC 60664-1                   | III b                      |
| Insulation resistance      | DIN EN 60512-2, Test 3a / IEC 60512-2, Test 3a | ≥ 10 <sup>12</sup> Ω       |
| Contact resistance         | DIN EN 60512-2, Test 2a / IEC 60512-2 Test 2a  | ≤ 5 mΩ                     |
| Current carrying capacity  | DIN EN 60512-3, Test 5b / IEC 60512-2 Test 5b  | see derating curves        |
| Pollution degree           | DIN EN 60664-1 / IEC 60664-1                   | 3                          |
| CLIMATICAL CHARACTERISTICS |                                                |                            |
| Climatic category          | DIN EN 60068-1 / IEC 60068-1                   | 40 / 100 / 21              |
| Upper temperature          |                                                | + 100 °C / 1000 h          |
| Lower temperatur           |                                                | - 40 °C / 16 h             |
| MECHANICAL CHARACTERISTICS |                                                |                            |
| IP degree of protection    | DIN EN 60529 / IEC 60529                       | IP20 unmated               |
| Mechanical lifetime        | IEC 60512-5; Test 9 a                          | ≥ 500 mating cycles        |
| MATERIALS                  |                                                |                            |
| Contacts                   |                                                | CuZn                       |
| Insert                     |                                                | PA                         |
| Contact plating            |                                                | silver plated              |
| FURTHER CHARACTERISTICS    |                                                |                            |
| Termination                |                                                | screw                      |
| Wire gauge                 |                                                | 0,25 - 2,5 mm <sup>2</sup> |



250 V, 10 A



250 V, 14 A



600 V, 10 A  
16 A  
20 A

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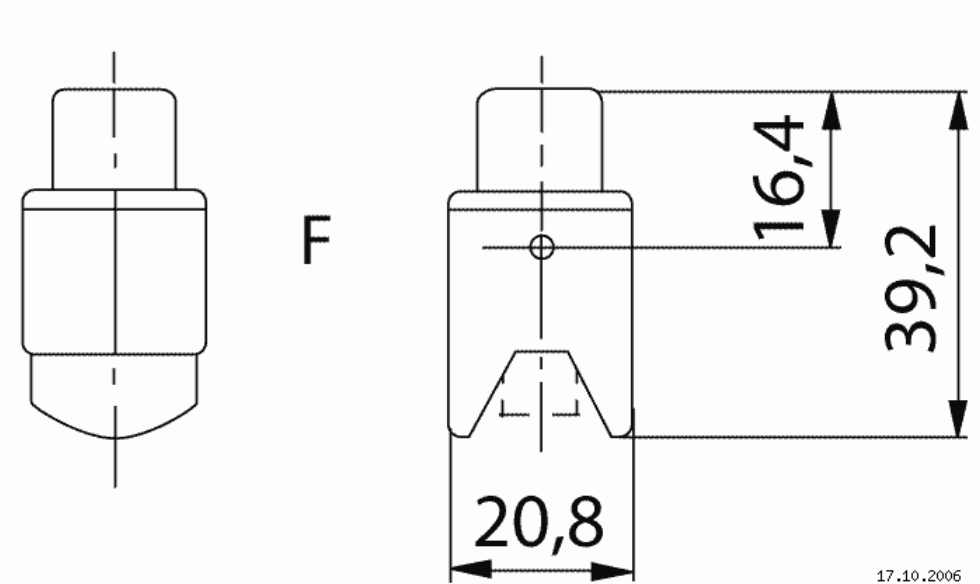
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Drawing Dimensions in mm (Inch)

17.10.2006

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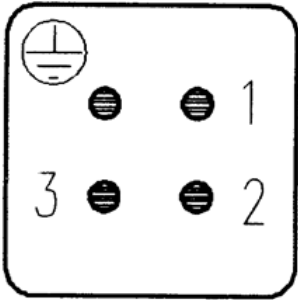
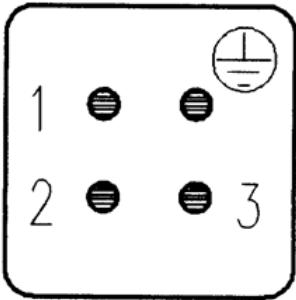
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Contact arrangement