

Circular Connectors C 16-3 Male cable connector size 2; straight, No. of contacts 19 + PE, 250 V, 6 A

Part No. C016 10I019 003 2



Series Circular Connectors C 16-3
Subseries Circular Connector C 16-3

View represents all available contact positions.

| COMMON CHARACTERISTICS         |                                                        |                             |
|--------------------------------|--------------------------------------------------------|-----------------------------|
| No. of contacts                |                                                        | 19 + PE                     |
| Version                        |                                                        | size 2; straight            |
| Cable diameter                 |                                                        | 12-14                       |
| ELECTRICAL CHARACTERISTICS     |                                                        |                             |
| Rated voltage                  | DIN EN 60664-1 / IEC 60664-1                           | 250V                        |
| Rated voltage                  | UL 1977                                                | 250V                        |
| Rated impulse voltage          | DIN EN 60664-1 / IEC 60664-1                           | 4000V                       |
| Rated current at 40°C          |                                                        | 6 A                         |
| Installation category          | DIN EN 60664-1 / IEC 60664-1                           | III                         |
| Insulation group               | DIN EN 60664-1 / IEC 60664-1                           | II                          |
| Insulation resistance          | DIN EN 60512-2, Test 3a / IEC 60512-2, Test 3a         | ≥ 10 <sup>8</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          | 6 A                         |
| Pollution degree               | DIN EN 60664-1 / IEC 60664-1                           | 3                           |
| CLIMATICAL CHARACTERISTICS     |                                                        |                             |
| Climatic category              | DIN EN 60068-1 / IEC 60068-1                           | 40 / 125 / 56               |
| Operating temperature          |                                                        | -40°C ... +125°C            |
| MECHANICAL CHARACTERISTICS     |                                                        |                             |
| IP degree of protection        | DIN EN 60529 / IEC 60529                               | IP 65                       |
| Insertion and withdrawal force | DIN EN 60512-13-2, Test 13b / IEC 60512-13-2, Test 13b | ≤ 25 N                      |
| Mechanical lifetime            | DIN EN 60512-9-1, Test 9a                              | ≥ 500 Steckzyklen           |
| Strain relief                  |                                                        | Cable retention             |
| MATERIALS                      |                                                        |                             |
| Contact plating                |                                                        | silver plated / gold plated |
| Housing                        |                                                        | Polyamid 6.6                |
| Gasket                         |                                                        | Neoprene                    |
| Dielectric material            |                                                        | Polyamid 6.6                |
| FURTHER CHARACTERISTICS        |                                                        |                             |
| Termination                    |                                                        | crimp                       |
| Wire gauge                     |                                                        | 0,09 - 1,0 mm²              |
| Wire gauge (AWG)               |                                                        | 28 - 18                     |
| Flammability                   | UL 94                                                  | V-0                         |
| Locking                        |                                                        | Bayonet                     |

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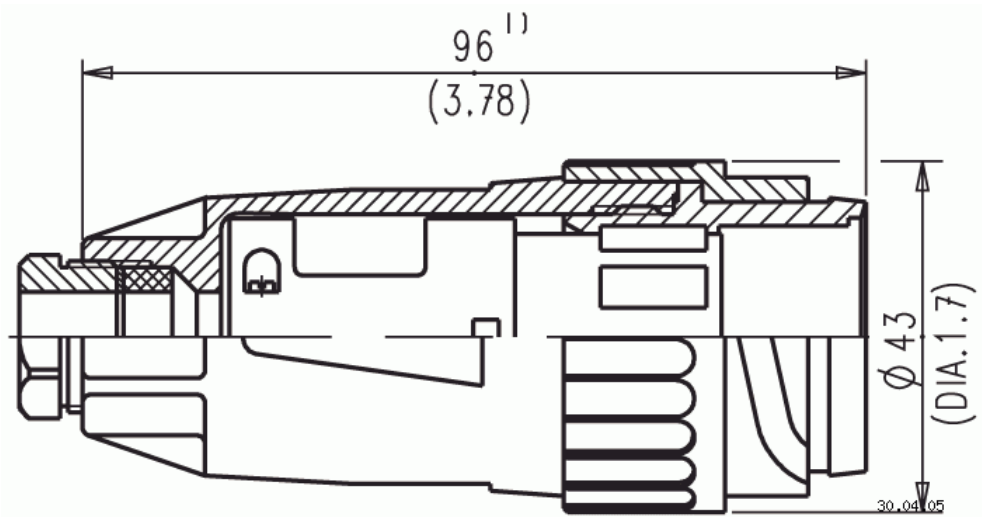
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Drawing Dimensions in mm (Inch)

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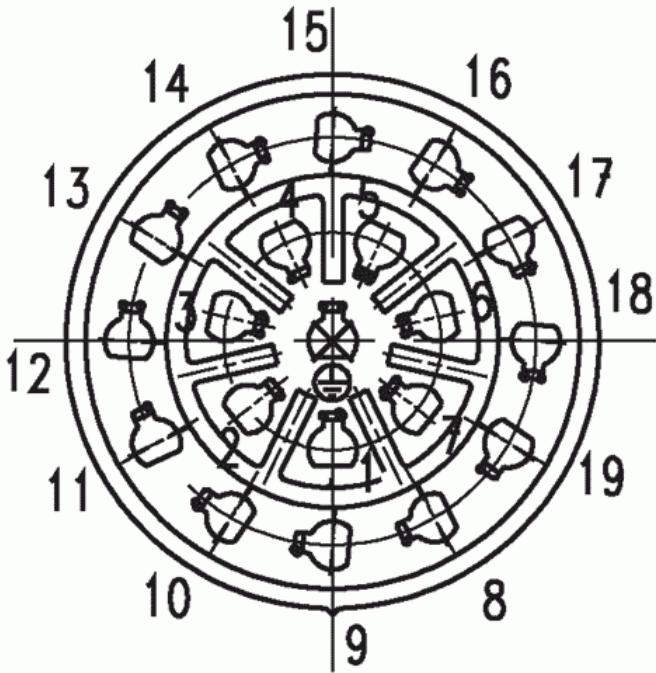
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Contact arrangement

30.04.05