

7/8 Circular Connector

300V 12/9A

Technical characteristics

|                          |                                    |                                    |                                    |
|--------------------------|------------------------------------|------------------------------------|------------------------------------|
| Number of contacts       | 3 (2+PE)                           | 4 (3+PE)                           | 5 (4+PE)                           |
| Rated current (40°C )    | 12A                                | 9A                                 | 9A                                 |
| Rated voltage            | 300V                               | 300V                               | 300V                               |
| Rated impulse voltage    | 4000V                              | 4000V                              | 4000V                              |
| Pollution degree         | 3                                  | 3                                  | 3                                  |
| Overvoltage categorie    | III                                | III                                | III                                |
| Contact resistance       | ≤ 3 mΩ                             | ≤ 3 mΩ                             | ≤ 3 mΩ                             |
| Connector locking system | screw7/8-16UN                      | screw7/8-16UN                      | screw7/8-16UN                      |
| Termination              | screw                              | screw                              | screw                              |
| Wire gauge               | max.1.5mm <sup>2</sup> (max.AWG16) | max.1.5mm <sup>2</sup> (max.AWG16) | max.1.5mm <sup>2</sup> (max.AWG16) |
| Cable outlet             | 6-8,8-10,10-12mm                   | 6-8,8-10,10-12mm                   | 6-8,8-10,10-12mm                   |
| Degree of protection     | IP67                               | IP67                               | IP67                               |
| Mechanical operation     | > 100                              | > 100                              | > 100                              |
| Limiting temperature     | -25°C ...+85°C                     | -25°C ...+85°C                     | -25°C ...+85°C                     |
| Material group           | III                                | III                                | III                                |
| Material of contact      | copper alloy                       | copper alloy                       | copper alloy                       |
| Contact plating          | Au                                 | Au                                 | Au                                 |
| Insulating material      | PA                                 | PA                                 | PA                                 |
| Material of housing      | PA                                 | PA                                 | PA                                 |

Straight cable connectors

Female cable connector, metal locking system, screw clamp connection

Recommended use



7/8



| Contacts | Cable outlet | Designation   | Order No.        |
|----------|--------------|---------------|------------------|
| 3 (2+PE) | 6-8 mm       | 7/8-F03-T-D8  | 168 003 421 3001 |
|          | 8-10 mm      | 7/8-F03-T-D10 | 168 003 421 3002 |
|          | 10-12mm      | 7/8-F03-T-D12 | 168 003 421 3003 |
| 4 (3+PE) | 6-8 mm       | 7/8-F04-T-D8  | 168 004 421 3002 |
|          | 8-10 mm      | 7/8-F04-T-D10 | 168 004 421 3001 |
|          | 10-12mm      | 7/8-F04-T-D12 | 168 004 421 3003 |
| 5 (4+PE) | 6-8 mm       | 7/8-F05-T-D8  | 168 005 421 3003 |
|          | 8-10 mm      | 7/8-F05-T-D10 | 168 005 421 3001 |
|          | 10-12mm      | 7/8-F05-T-D12 | 168 005 421 3002 |

