Operating voltage up to 100 kVDC
Operating current up to 80 Amps
Advanced contact technology
Oil tight receptacles available
High performance insulation materials PTFE
### General characteristics and technical data Series 100

#### Housing
- **Locking system**: threaded coupling
- **Mounting type (panel mount connector)**: round flange
- **Housing material**: brass (CuZn)
- **Surface plating**: nickel (Ni)
- **Protection class (mated connector)**: IP67
- **Operating temperature**: -30°C to +80°C

#### Contacts 2.5 mm (connector types SB1x0)
- **Termination method**: solder (male contact), solder / screw (female contact)
- **Rated current**: 30 A
- **Max. operating current**: 40 A
- **Pulse current**: 3000 A
- **Contact resistance**: 300 μΩ
- **Contact diameter**: 2.5 mm [.173”]
- **Contact material**: brass (CuZn)
- **Contact plating**: silver (Ag)
- **Insertion / Withdrawal force**: 5.5 N / 4.0 N
- **Mating cycles**: 100000
- **Rated temperature**: +120°C

#### Contacts 5 mm (connector types SB1x5)
- **Termination method**: solder (male contact), solder / screw (female contact)
- **Rated current**: 80 A
- **Max. operating current**: 110 A
- **Pulse current**: 10000 A
- **Contact resistance**: 150 μΩ
- **Contact diameter**: 5 mm [.197”]
- **Max. wire size**: AWG 8 / 10 mm²
- **Contact material**: brass (CuZn)
- **Contact plating**: silver (Ag)
- **Insertion / Withdrawal force**: 15 N / 10 N
- **Mating cycles**: 100000
- **Rated temperature**: +120°C

#### Insulation inserts
- **Number of contacts**: 1
- **Insulation material**: PTFE
- **CTI value**: 600
- **Flammability class PTFE**: UL94 V-0
- **Operating temperature PTFE**: -50°C to +200°C
- **Insulating material group PTFE / POM**: I (DIN IEC 60664)

#### Suitable cable dimensions
- type 1x0: max. AWG14
- type 1x5: max. AWG8

max. Ø 10.0 mm [.394”]
max. Ø 14.0 mm [.551”]