

ODC[®]-4 assemblies

ODC-4 outdoor connector



Features

- 4 fibers, single-mode or multi-mode
- Compact design with 4 × 1.25 mm ferrules
- Built-in socket with square or hexagonal flange
- Extension connector for cable chaining
- Screwed locking mechanism
- Easy and safe installation
- Waterproof, dust proof and corrosion resistant
- Waterproof protection caps
- EMI protected
- RoHs compliant
- Full compatibility with previous version
- Fulfills performance standard IEC 61753-1 Cat. E

Specifications

| | | |
|-------------------------------------|----------------|-------------------------------------------------|
| Technology | | full ceramic ferrule and sleeve |
| Housing material | | nickel-plated brass |
| Mechanical performance | ODC-4 plug | ≤ 800 N tensile load ≤ 30 N static side load |
| | ODC-4 socket | ≤ 30 N tensile load |
| Installation torque force | min. 1 Nm | max. 2 Nm |
| Operating temperature ¹⁾ | IEC 61300-2-22 | -40 to + 85 °C |
| Mating durability | | 1000 cycles ²⁾ |
| Ingress protection (mated) | IEC 60529 | IP68 |
| Salt mist | IEC 61300-2-26 | 30 days passed |
| Vibration | IEC 61300-2-1 | passed 10 to 500 Hz/10 g |
| Shock | IEC 61300-2-9 | passed 100 g |

¹⁾ depending on cable type

²⁾ with repeated cleaning

Optical performance

| | | | |
|----------------------------------|-------------|----------------|----------------|
| Insertion loss IEC 61300-3-34 | single-mode | typ. ≤ 0.20 dB | 97 % ≤ 0.45 dB |
| | multi-mode | typ. ≤ 0.20 dB | 97 % ≤ 0.50 dB |
| Return loss | single-mode | ≥ 50 dB | |

Overview of ODC-4 connector types

| Type old | Type new | Connector | Dust cap | IP |
|----------|----------|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------|
| J2 | ODP1 | ODC-4 plug  | screwed cap with pulling feature  | IP68 |
| J3 | ODP2 | | screwed cap with chain  | IP68 |
| E4 | ODE1 | ODC-4 extension (socket type)  | screwed cap  | IP68 |
| E6 | ODE2 | | screwed cap with chain  | IP68 |
| K2 | ODR1 | ODC-4 socket, hexagonal  | screwed cap  | IP68 |
| K3 | ODR2 | | screwed cap with chain  | IP68 |
| K6 | ODS1 | ODC-4 socket, square small  | screwed cap  | IP68 |
| K7 | ODS2 | | screwed cap with chain  | IP68 |