



# ORP8M

8 pole male chassis connector, solder contacts, 180° coding, black housing

The neutriCON connectors are designed for multipin/industrial applications in harsh and demanding environment. The very robust all metal circular connector offers easy and screwless assembly, flexible part combination and a push-pull locking mechanism.

## Features & Benefits

- ✓ Contact configuration can be selected from 1 to 8 contacts
- ✓ Easy assembly: Contact soldering in disassembled condition avoids awkward wiring of high density contacts.
- ✓ Precise and robust all metal housing
- ✓ Push-pull self-locking system

## Technical Information

| Product         |           |
|-----------------|-----------|
| Title           | ORP8M     |
| Connection Type | neutriCON |
| Gender          | male      |

**Electrical**

|                           |  |
|---------------------------|--|
| Contact resistance        | $\leq 5 \text{ m}\Omega$                                   |
| Dielectric strength       | 1,5 kVdc   |
| Insulation resistance     | $> 0.5 \text{ G}\Omega$ (after damp heat test IEC 68-2-30) |
| Rated current per contact | 7,5 A  |
| Rated voltage             | $< 50 \text{ V}$   |

**Mechanical**

|                    |                        |
|--------------------|------------------------|
| Cable retention    | $> 50 \text{ N}$       |
| Insertion force    | $< 25 \text{ N}$       |
| Lifetime           | $> 1000$ mating cycles |
| Wiresize           | 1 mm <sup>2</sup>      |
| Wiresize           | 18 AWG                 |
| Wiring             | Solder contacts        |
| Locking device     | Push-Pull              |
| Mounting direction | Front mounting         |

**Material**

|                 |   |
|-----------------|---|
| Contact plating | 0.3 $\mu\text{m}$ Au hard alloy over 2 $\mu\text{m}$ Ni |
| Contacts        | Brass (CuZn35Pb2)                                       |
| Insert          | PBTP 15 % GR  |
| Shell           | Zinc diecast (ZnAl4Cu1)                                 |
| Shell plating   | Black chromium  |

| Environmental     |                           |
|-------------------|---------------------------|
| Flammability      | UL 94 HB                  |
| Protection class  | IP 5X                     |
| Solderability     | Complies with IEC 68-2-20 |
| Temperature range | -30 °C to +80 °C          |