EN3 Series Specifications

conxall
A Switchcraft Company

GENERAL FEATURES AND BENEFITS

- Great all-purpose connector “weather” or not sealing feature is required.
- Superior leakage protection. Contact area is double-sealed for excellent moisture and chemical resistance when mated to Switccraft’s connectors.
- Integral O-ring and gasket. O-ring is molded onto cord housing assembly and gasket is molded onto panel housing assembly to prevent leakage and eliminate need for additional O-rings and gaskets.
- Reduced part count for reduced labor to assemble.
- No Grommets. Cable clamp assembly features living hinges, which snap easily onto and support the cable.
- Thermoplastic rubber body simulates closed entry contact system to prevent probe damage or accidental loss of spring retention due to misaligned or bent pins.
- Abrasion-resistant thermoplastic boot provides strain relief and accepts cable diameter .195” to .265”.
- Housing rated UL 94V-O against flammability.
- Panel connector shell features a positioning keyway to prevent misalignments and a polarizing single “D” design for proper panel mounting and to prevent rotational movement.
- 2-8 pins.
- Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20).
- Optional cap covers panel housing assembly when not in use.
- Exceeds enclosure rating IP16/IP18 when not mated or covered and IP66/IP68 when mated or covered (IEC 529).
- Exceeds enclosure rating 6P at 1000V when mated or covered (NEMA 250).

APPLICATIONS

- Process Control Communications
- Marine Electronics Transportation
- Medical Instrumentation General Industrial Electronics
- Geothermal Instrumentation Harsh Environments

MATERIALS

- Cord and panel connector shells, contact locking disk, and cable clamp assembly: Thermoplastic polymer glass fiber, flame retardant
- Coupling ring: Nylon
- Rear boot and connector shell interior: Thermoplastic rubber
- Contacts: Copper base alloy gold-plated over nickel underplate

SPECIFICATIONS

MECHANICAL

- Shock: Mil-Std 202 Method 213B, condition K
- Vibration: Mil-Std 202 Method 201
- Life: 600 insertion/withdrawal cycles (minimum)

ELECTRICAL

- Voltage Rating (sea level): Tested at 600 VRMS
- Insulation Resistance: 100 megohms (minimum) at 77° F
- Contact Resistance: 5 milliohms (maximum)
- Current Rating: 7.5 Amps (#20 contact) 6.5 Amps (#20 contact) - 7 and 8 Pin 13.0 Amps (#16 contact) - 2 and 3 Pin

ENVIRONMENTAL

- Temperature Limits: -40°C to +65°C (non-operating)
- Moisture Resistance: Mil-Std 202 Method 106F
- Insulation Resistance: Mil-Std 202 Method 302 condition B
- Thermal Shock: Mil-Std 202 Method 107G
- Salt Spray: Mil-Std 202 Method 101D condition B

RATINGS

- IP16/IP18 CFR 46 Part 110.20
- IP66/IP68 UL 94V-O
- NEMA 250 (6P)
- Patent 5,485,673 File 36049