NUCLEAR CONTAINMENT SEALS

NSC

Nuclear Service Connector

DESCRIPTION

Mirion Technologies Nuclear Service Connectors (NSCs) offer quick, reliable disconnect and reconnect, and eliminate costly cut and splice procedures.

Metal-to-metal seals eliminate organic "O" rings and gaskets, ending seal replacement maintenance.

Standard designs allow for retrofit into existing Class 1E applications and provide direct field termination to MI cable, sensor or instrument device housing. All metal components are constructed of 316 stainless steel.

FEATURES

✔ Radiation resistance: 2.25×10^8 Rads

✔ Normal service temperature ambient: 225 °F (107.2 °C)

✔ Design pressure: 75 psig (517 kPa)

✔ Seismic horizontal and vertical RRS, up to 15 G's SSE

✔ Design basis event:
   • Loss of Coolant Accident (LOCA)
   • Main Steam Line Break (MSLB)

✔ Minimal personnel radiation exposure time
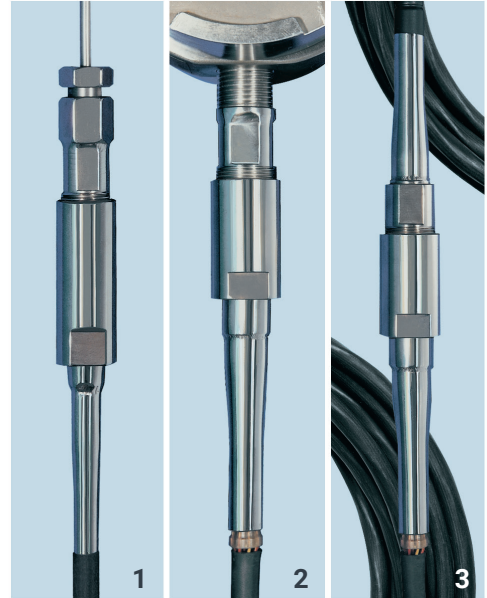
Multi-pin NSC

NUCLEAR SERVICE CONNECTOR (NSC) NUCLEAR CONTAINMENT SEALS

NSC CERTIFICATION AND QUALIFICATION

- Class 1E Qualified
  - IEEE-323
  - IEEE-344
  - IEEE-572
- Manufactured under ANSI/ASME NQA-1 and 10 CFR 50/ Appendix-B quality program
- 10 CFR 21 accepted
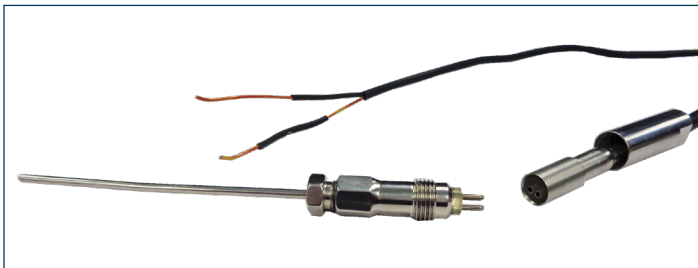- Audited by: NUPIC, NIAC, NRC

APPLICATIONS

- Resistance Temperature Detectors (RTDs)
- Thermocouples
- Limit switches
- Solenoid valves
- Pressure transmitters
- Motor operated valves
- Level sensors
- Any Class 1E devices requiring sealed conduit entrance

1. Flexible cable to sensor or MI cable
2. Flexible cable to device
3. Flexible cable to fl exible cable

Multi-pin NSC

2 Pin NSC with Thermocouple

NSC with RTD (Resistance Temperature Detector)

Technical Support Available

MIRION
TECHNOLOGIES