



# NUCLEAR

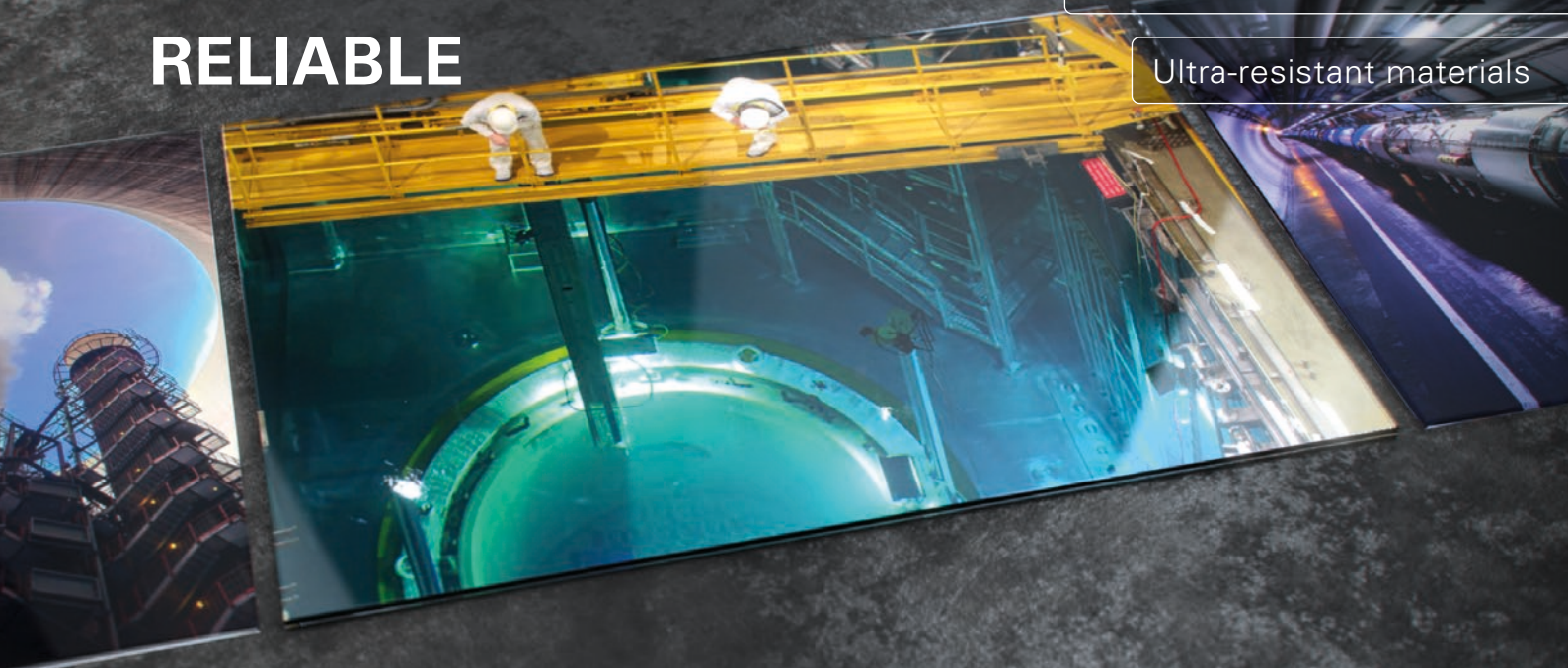
# CONNECTIVITY SOLUTIONS

**TRUSTED**  
**PROVEN**  
**RELIABLE**

Made for extreme conditions

Long-term, rugged solutions

Ultra-resistant materials



For more than 60 years, Fischer Connectors has been manufacturing connectivity solutions **designed for the severe environments** associated with nuclear applications.

Our **robust, high-performance solutions** offer **high radiation, temperature and pressure tolerance, IP68/IP69 and hermetic sealing and 360° EMC shielding**, in addition to **corrosion, shock and vibration resistance**. Standard solutions include **hybrid connectors, reverse polarity and tamper-proof locking** and are proven in gloveboxes, polar and reactor servicing **cranes, control panels, x-ray and remote inspection systems**.

For gloveboxes, our connectors offer ease of use for gloved and remote handling. They are compatible with decontamination and sterilization processes allowing for safe environmental, geophysical and material testing and inspection.

Whether for nuclear decommissioning, reactor segmentation, fuel manufacturing and power generation or research laboratories, Fischer Connectors provides trusted solutions and technical support for your applications.



**fischer**  
CONNECTORS

Part of Conexivity Group



# NUCLEAR

Ideal for nuclear applications, the Fischer Core Series Stainless Steel and Fischer Core Series Brass, both intermateable, offer a wide range of standard body sizes, styles and contact configurations:



## FISCHER CORE SERIES STAINLESS STEEL



Mirion Technologies uses Fischer Connectors for radiation monitoring systems on their brand MGP Instruments. The ionization chamber series KG 80 PED/PEF has been developed for gamma dose rate monitoring under extreme conditions and the Fischer Core Series Stainless Steel is ideal for the task.

- Up to IP68/69 and hermetic sealing ( $< 10^{-8}$  mbar l/s)
- 360° EMC shielding
- Easy to handle with gloves and remotely
- Compatible with nuclear decontamination fluids
- Premium materials for best radiation resistance
  - 316L stainless steel, PEEK, EPDM
- High radiation resistance
  - Unsealed connectors:  $10^7$  Gy (= 1000 Mrad)
  - Sealed receptacles:  $10^5$  Gy (= 10 Mrad)



## FISCHER CORE SERIES BRASS



The CERN trusts Fischer Connectors for essential connectivity needs in measurement tools, vacuum pumps and chambers for monitoring and safety devices. The Fischer Core Series Brass is particularly suited where electromagnetic interferences must be avoided or where temperatures can have extreme variations.

- Over 20,000 configurations
- Up to 10,000 mating cycles
- Up to IP68/69 and hermetic sealing ( $< 10^{-8}$  mbar l/s)
- 360° EMC shielding
- High temperature and chemical resistance
- 2-42 signal and power contacts

Other solutions available with :



FISCHER **FREEDOM™** SERIES



FISCHER **ULTIMATE™** SERIES



FISCHER **MINIMAX™** SERIES

**CONTACT YOUR LOCAL FISCHER CONNECTORS SUBSIDIARY**



For more information visit  
[fischerconnectors.com/nuclear](https://fischerconnectors.com/nuclear)

© Fischer Connectors SA – All rights reserved – 550261 – Version 1.0 – 12.2020 – Changes without prior notice

**fischer**  
CONNECTORS