



GORE™ High Flex

ROUND CABLE

For Nuclear Reprocessing, Storage and Decommissioning Applications

Reliable Cable Solutions

Gore provides reliable, high flex life cable systems for nuclear reprocessing, storage and decommissioning applications. These custom solutions are radiation tolerant, flame retardant, chemical resistant and provide a cable solution with reduced cable diameter and weight. For harsh environments where medium to high radiation is present, Gore provides reliable cable solutions that won't decompose. All materials are Halogen free, rated 10 to 8 Rad tolerant and are UL certified. Gore's unique termination style ensures a reliable transition from cable to connector. By using Milene as part of the insulation, Gore also provides a smaller cable solution.

Gore designs and manufactures unique cable systems for the most complex and challenging cable management problems that face the Nuclear Industry.

FACTORS TO CONSIDER AT THE DESIGN STAGE

- Electrical requirements for each component
- Conductor material and stranding
- Insulation material
- Internal and external EMI shielding
- Cable flex life
- Environmental requirements
- Jacketing material properties
- Positioning of components within a cable design

CABLE CAN INCLUDE NON-ELECTRICAL COMPONENTS

- Strain members
- Hydraulic tubes
- Fluid lines

CONNECTOR SYSTEMS

Experience has shown that the probable area of failure is at the connector to cable interface. Gore has developed a range of back-fittings and moldings to reduce stress points, thereby increasing system reliability.

STRAIN MEMBER TERMINATION

Through experience and testing, methods have been developed for including strain members within cable designs for retrieval and lifting purposes. Unique termination methods have been designed by Gore for strain members of this type. Pull test certification can be provided.



KEY FEATURES

- Halogen-free materials
- Custom cable solutions
- UL certified

KEY BENEFITS

- High flex life
- Reduced cable diameter and weight
- Radiation tolerant
- Flame retardant
- Chemical resistant

PRODUCT SPECIFICATIONS

Radiation Tolerance	Total dose 5×10^6 grays (5×10^8 rad)
Wide Temperature Range	-20°C to +90°C
Flame Retardant	UL and European Standards
Bend Radius	Static 5 x cable diameter Dynamic 10 x cable diameter
Operating Voltage	Up to 1000 volts



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PROVEN TRACK RECORD

GORE™ Cables offer superior flex life performance and maximum resistance to severe mechanical and environmental stresses. With 50 years of experience in the wire and cable industry and extensive knowledge of unique materials, Gore provides reliable cable solutions for your most demanding cable and assembly needs.

W. L. Gore & Associates, Inc.

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