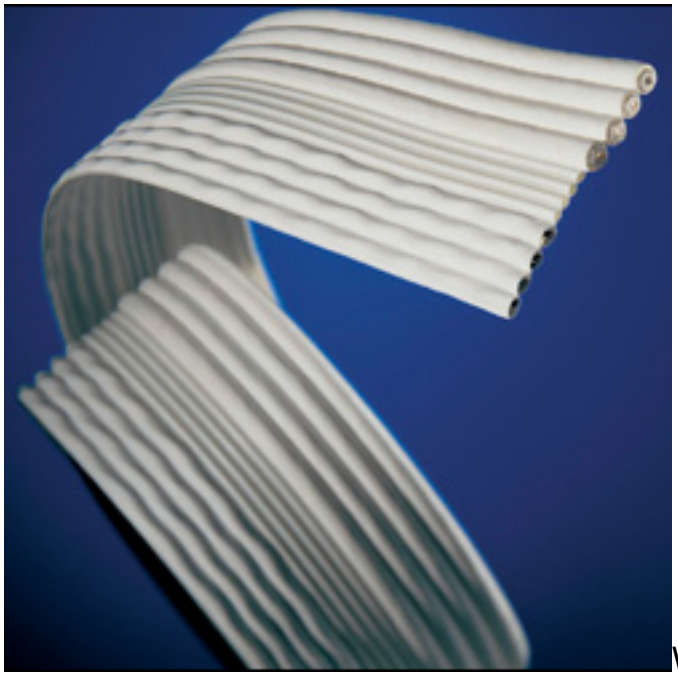
PTFE Cables Intended for Industrial, Aerospace and Semiconductor Markets



W. L. Gore & Associates (Gore) continues to enhance its engineered PTFE (polytetrafluoroethylene) technology for use in flat and round cables, making them the premier choice for demanding, extreme environments such as semiconductor manufacturing, aerospace, and industrial applications. Gore's customized materials and unique cable designs have resulted in products that minimize particulation and outgassing while maximizing longevity – a combination of qualities not found in any other cable technology.

The low coefficient of friction and excellent tear resistance of Gore's expanded PTFE composite jacket material enable its high flex cables to maintain excellent signal integrity. This flexible material also allows the flat cables to be stacked on top of each other without needing dividers and shelves, reducing the overall size and weight of the cable system. Unlike flat cables with jackets made of extruded materials such as silicone and polyurethane, GORE High Flex Flat Cables' extremely low coefficient of friction does not create particles — a crucial advantage in cleanroom environments.

"Gore's High Flex Flat Cables ensure electrical and mechanical integrity in demanding environments – valued in applications where high-flex cycles, high-temperature resistance, or clean manufacturing and operation are required," said Brian Tallman, Flat Cable Business Leader. "We are also continuing to invest in fluoropolymer technology and cable development to increase dielectric strength and performance while reducing cable size and weight."

Gore offers several high flex, clean (low particulation and outgassing) cable solutions including GORE High Flex Flat Cable, GORE Trackless High Flex Cable, and

GORE High Flex Round Cable. GORE High Flex Flat Cable provides excellent cable management because they do not require cable dividers within cable chain. This reduces particulation and results in extended cable life. GORE Trackless High Flex Cable eliminates the need for cable chain and many of the problems associated with cable chain, such as particulation, vibration, size, weight and noise. Additionally, a low-particulation jacket is available for GORE High Flex Round Cable. For more information about Gore's full line of cables and material-based solutions, visit http://www.gore.com/electronics [1].

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