Cost-effective, rugged and dependable, FLEXIBLE ETFE/ETFE (Ethylene Tetrafluoroethylene Fluropolymer) Control, Instrumentation and tray cables are much lighter in weight and more compact than rubber cables, up to 40 percent smaller in diameter and are designed to surpass today’s demanding engineering specifications:

- Provides reliable data and signal transmission performance
- Easily tolerates severe mechanical stress, extreme temperature variation including arctic conditions, corrosive chemical exposure and are chemically inert.
- Fluoropolymer exterior offers advanced resistance to cut-through, crush and abrasion damage

ETFET/ETFE Control and Instrumentation cables are highly cost-effective:

- Facilitate the use of smaller, more cost-effective connectors, trays, fittings and conduit
- Reduced cable pulling time and faster terminations
- Reduced operational or emergency shutdowns
- Easier cable rack terminal pull-off and will not stretch like rubber products

ETFET INSULATED TRAY CABLE TYPE TC 150ºC, 600V:

- 600V, 90º damp or dry 150ºC special applications
- Multi-conductor and Class I Division 2 rated

FG2000® – CABLE USA’S PREMIER EXTREME HEAT PRODUCT:

- Designed for use in continuous heat conditions of 450ºC/843ºF (UL)
- Tolerates extreme heat up to 538ºC/1000ºF (non-UL)
- Remains flexible to -160ºC/-320ºF
- Engineered to resist moisture, acids, alkalis, chemicals, oils, physical and mechanical abuse

FG2000® Features:

- High insulation resistance, advanced dielectric strength and low dissipation factor
- Superior tensile strength, tear and impact resistance
- Moisture barrier intact up to 260ºC
- Highly resistant to radiation.
- Fused PTFE layer under the glass braid, mica and fiberglass
- Inorganic materials

FEP INSULATED INSTRUMENTATION CONTROL CABLES (Fluorinated Ethylene Propylene) - 200ºC, 600V

Features:

- Multi-conductor Fluorinated Ethylene Propylene (FEP)
- FEP – exceeds requirements of 70,000 BTU cable tray fire propagation test (IEEE-383)
- Passes UL VW-1 vertical flame propagation test

Applications where FG2000® High-Temperature Cables, FPA Insulated Tray Cable 250ºC Type TC UL 600V, excel include:

- Non-safety areas in Nuclear Power Plants – Teflon® cables, ETFE, FEP, PFA
- Control Rooms – Teflon® cables including Power, Control, and Instrumentation Cables, ETFE (150ºC), FEP(200ºC), PFA(260ºC)
- Installation in trays - Teflon® cables, ETFE, FEP, PFA, and UL Power Limited Tray Cables (PLTC)
- Steam turbines (FG2000)
- Data Processing Centers (DP-1P Cables)
- High Temperature Thermocouple
- FG2000® Pressurized Heaters in non-safety areas of “PWR” reactors

For more information on applications, technical data sheets are available.
# Premier Products from Cable USA

## ETFE-FEP-FG2000®

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<th>Product</th>
<th>Part Number</th>
<th>Description</th>
<th>AWG Size</th>
<th>No. of Conds.</th>
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<th>Jacket Thickness</th>
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**Thermocouple**

- **150°C/200°C/250°C** Consult factory. We offer many designs in ETFE, FEP, PFA and FG2000®.
- **450°C/538°C** We also offer Thermocouple Extension Cables.

*All data is subject to change. Please confirm dimensions and weights with factory before ordering.*

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CONDUCTORS AND ADDITIONAL MATERIALS
- All types and platings of copper conductors
- Copper-alloy high performance conductors
- Thermocouple alloys
- PTFE tape
- Mica tape
- Ceramic tape
- Fiberglass tape
- Fluoropolymer tape (sintered, unsintered, conductive, colored)
- Shielding Braids (copper, NPC, alloy)
- Armoring Braids (SS302, 304, 316)
- Textile Braids (glass, K-fiber)

PRODUCT SIZE RANGE
MINIMUM
- #40 AWG / .002 wall thermoplastic
- #24 AWG / .015 wall silicone

MAXIMUM
- 1100 MCM
- 3.000” O.D. (braided jacket)
- 2.000” O.D. (high-temperature jacket)
- 1.750” O.D. silicone rubber

Maximum Reel Size: 84”

SOME OF OUR SPECIALTY CABLE TYPES
- High-Temperature Wire and Cables
- Coil Cords
- Very Large Cables
- Flat-Festoon Cables
- Vented Cables
- Pump Cables
- Custom Products per Customer Specifications

SYNERGIZING TECHNOLOGY
Cable USA has the unique ability to provide a comprehensive family of high-temperature wire and cable products to address the specialized needs of industry. With more than 75 years of combined experience in solutions for the Wire and Cable industry, our World Class team of polymer scientists and engineers are uniquely qualified to develop solutions to new technology challenges.