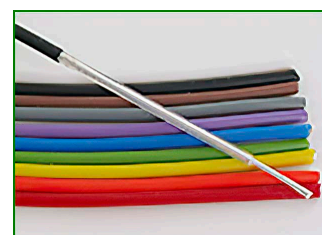
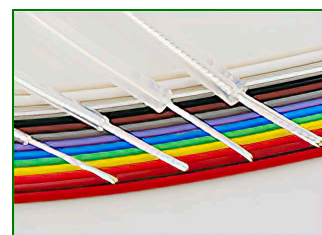


UNSHIELDED HIGH VOLTAGE / HIGH TEMPERATURE WIRE

18kV_{DC} – 30kV_{DC} - FEP, ETCHED FEP AND SILICONE COATED FEP – INTERNAL USE

FEATURES

- Extremely Small Diameter - High Flexibility
- Operating Temperature: -55°C - +200°C
- Bondable Surface: pre-etched or Silicone coated
- High Voltage up to 30kV_{DC}
- 28 AWG - 18 AWG Conductors - Silver Plated Copper
- Ozone and Corona Resistant
- Reference: MIL-W-22759
- FEP Resins Meet Flammability Requirements of UL94V-0
- RoHS Compliant



APPLICATIONS

- Laser Systems
- High Voltage Transformers
- Military & Space
- Industrial & Medical
- High Voltage Power Supplies

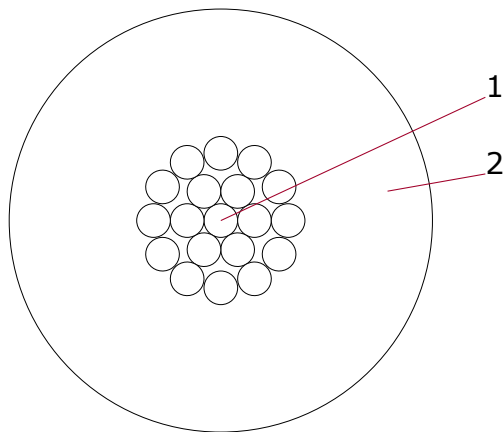
Fluorinated Ethylene Propylene (FEP) offers an excellent combination of properties that include: exceptional dielectric properties, a low dielectric constant over a wide frequency range, chemical inertness including transformer oils and dielectric fluids, heat resistance with retention of properties after service at 204° C, toughness, flexibility, possesses a very high degree of stress crack resistance, low coefficient of friction, low flammability, negligible moisture absorption, has long term weatherability and excellent resistance to ozone sunlight and weather.

FEP offers the lowest refractive index of all thermoplastics with low light reflection (the same as water).

HFPE: pre-etched surface is compatible with epoxy based potting materials.

HFPS: Silicone coated surface is compatible with RTV/Silicone based potting materials and adhesives..

HFP, HFPE WIRES



1. Conductor	Silver plated copper wires
2. Dielectric	HFPE Series: Pre-etched FEP

Pre-etching provides a bond ready FEP surface compatible with epoxy based potting materials.

The shelf life of the etching on the HFPE wires is normally 6 months or longer when protected from ultra-violet light (sunlight).

HFP TYPE	HFPE TYPE	RATED VOLTAGE [kV _{DC}]	SIZE [AWG]	STRANDS [n/AWG]	OUTER DIA [mm]
HFP-1828-19-*	HFPE-1828-19-*	18	28	19/40	1.02
HFP-1826-19-*	HFPE-1826-19-*	18	26	19/38	1.14
HFP-2026-19-*	-	20	26	19/38	1.27
HFP-1824-19-*	HFPE-1824-19-*	18	24	19/36	1.27
HFP-2022-19-*	HFPE-2022-19-*	20	22	19/34	1.52
HFP-2520-19-*	HFPE-2520-19-*	25	20	19/32	2.03
HFP-3020-19-*	HFPE-3020-19-*	30	20	19/32	2.54
HFP-3018-19-*	-	30	18	19/30	3.30