



HSM Wire International, Inc

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www.hsmwire.com

Litz Wire for High Voltage, High Frequency Applications

Extruded FEP over Litz wire permits outstanding conformability plus effortless stripping both mechanically and thermally. This exclusive jacket permits clean cuts, withstands practically all chemicals and solvents, and has a low coefficient of friction.

FEP Litz wire offers a massive amount of advantages in drawing, procedure and setting up.

DESIGN ADVANTAGES

Thermal:

- Max Operating Temperature: +200°C.
- Brittle Temperature: (ASTM D-476) - 80°C

Electrical:

It has outstanding dielectric properties, remarkably constant over a wide range of frequencies and environmental conditions.

- Dielectric Constant @ 1mHz: (ASTM D-150) 2.1
- Dissipation Factor @ 1mHz: (ASTM D-150) 0.0007
- Volume Resistivity ohm-cm: (ASTM D-257) $>2 \times 10^{18}$
- Dry Dielectric v/mil: (ASTM D-149) 1200

OPERATION ADVANTAGES

- Durometer Hardness: (ASTM D-2240) D59
- Tensile Strength PSI (min): (ASTM D-412) 2700 – 3100
- Elongation % (min): (ASTM D-412) 250 – 300
- Resistance to abrasion even at high temperatures.

INSTALLATION ADVANTAGES

- Flexibility and strength retained over a wide temperature range

Operating Frequency: 60 Hz to 3.0 Mc

Film Insulations: All NEMA recognized insulations are available.

Additional Insulations: PVC or Multi Layer FEP.

Colors Available: As required.

Wall Thickness: Minimum .005" (0.127 mm) / Max. .030" (0.762 mm).

Cable Diameters: Minimum .005" (0.152 mm) / Max. .300" (7.62 mm).