

HiVeC[®] HIGH VELOCITY PTFE COAXIAL CORE

Description: Markel HiVeC[®] Coaxial Core consists of extruded, expanded PTFE dielectric over solid or stranded conductor. The density of the dielectric can be varied to provide velocities of propagation up to 92% and dielectric constants to as low as 1.2. Continuous production processes result in long, splice-free, lengths.

APPLICATIONS

Markel HiVeC[®] Coaxial Core allows cable designers to meet the demanding performance characteristics needed in RF and microwave military, aerospace, communications and testing cable requirements.

SIZE RANGE CURRENTLY AVAILABLE

- Conductor Size Range: AWG 32 to 11
- Dielectric Diameter Range: 0.030”(0.762 mm) to .300”(7.62 mm)

KEY FEATURES

- Longer Lengths Available Compared to Expanded PTFE Tape Wrapped Core
- Markel HiVeC[®] Coaxial Core Offers the Highest VoP of any Polymeric Dielectric
- Flatter Phase vs. Temperature Profile When Compared to Conventional PTFE Analogs
- Easier Connectorization when Compared to a Expanded PTFE Tape Wrapped Dielectric Construction
- Lower Yield Losses During Subsequent Cable Assembly Construction
- Longer Lengths Improve Assembly of Rigid or Semi-Rigid Shielded Cables.

PERFORMANCE CHARACTERISTICS COMPARED TO OTHER PTFE DIELECTRICS

Dielectric	Dielectric Constant	Velocity of Propagation
PTFE	2.1	69 %
Marlon [®] Low Density PTFE	1.7	77%
PTFE Tape Wrap	1.8 - 1.4	Up to 85%
HiVeC [®]	1.7 - 1.2	77% - 92%

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