

HiVeC™ HIGH VELOCITY COAXIAL CORE

DESCRIPTION

Markel HiVeC™ Coax 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 (VoP) up to 89.5% and dielectric constant values to as low as 1.25. Continuous production processes result in long, splice-free, lengths.

APPLICATIONS

Markel HiVeC™ Coax Core allows cable designers to meet the demanding performance characteristics needed in RF and microwave military, aerospace, communications and testing cable applications.

SIZE RANGE CURRENTLY AVAILABLE

Conductor Size Range: AWG 32 to 9

Dielectric Diameter Range: 0.030”(0.762 mm)
to .325”(7.62 mm)

KEY FEATURES AND BENEFITS

- Longer Lengths Available Compared to Expanded PTFE Tape Wrapped Core
- Markel HiVeC™ Coax 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 Possible when Working with Rigid or Semi-Rigid Shielded Cabled.

PERFORMANCE CHARACTERISTICS COMPARED TO OTHER PTFE DIELECTRICS

Dielectric	Dielectric Constant	Velocity of Propagation
PTFE	2.1	69 %
Marlon® Low Density Core	1.7	77%
PTFE Tape Wrapped	1.8 - 1.4	Up to 85%
HiVeC™	1.7 - 1.25	Up to 89.5%

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