

**MARLON™ LOW DENSITY PTFE DIELECTRIC COAXIAL CORE WIRE**

**Markel MARLON™ Low Density Precision Extruded polytetrafluoroethylene (PTFE) Dielectric Core Wire** is supplied as a component to manufacturers of flexible and semi-rigid coaxial cables. Conductors are stranded or solid silver plated copper or copperweld. Dielectric values are tightly controlled to meet the requirements of each finished cable as specified by the cable producer.

**APPLICATIONS**

Markel MARLON™ Low Density PTFE Dielectric Core Wire is the starting point for high performance flexible and semi-rigid coaxial cables used in both military and commercial wireless communications systems and other high frequency test and measurement equipment.

**PERFORMANCE COMPARRISONS**

Dielectric	Dielectric Constant	Velocity of Propagation
PTFE	2.1	69 %
MARLON™ Low Density PTFE	1.7	77%
PTFE Tape Wrapped	1.4	85%
HiVeC™	1.7 - 1.25	77% - 89.5%

**KEY FEATURES**

- Longer Lengths Available Compared to Stretched PTFE Tape Wrapped Core
- Easier Connectorization when Compared to a Stretched 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.

**TYPICAL PRODUCTION SIZES**

SIZE, AWG	CONDUCTOR DIAMETER	CONDUCTOR MATERIAL
28	.0126	SPC
23	.0226	SPC
19	.0359	SPC
18	.0403	SPC
16	.0508	SPC
15	.0565	SPC

Dielectric diameter is directed by the cable designer. The tolerance varies with the wall thickness.