

Advantage

Taped & Porous Low-Density PTFE dielectric allows to obtain a Velocity of Propagation up to 83%. This will lower attenuation, dielectric constant. Compact composite braiding and SPC (Silver Plated Copper) helically taped construction will increase shielding effectiveness.



Cable Structure & Materials

- Center Conductor: Silver Plated Copper (Solid)
- Dielectric Core: Taped Air Porous Low-Density PTFE
- Outer Conductor: SPC (Silver Plated Copper) tape and braids
- Jacket: Ruggedized Stainless Steel with PTFE Braided Armor

Physical & Environmental Specifications

* All mechanical dimensions are in mm and nominal

SPECIFICATIONS	P35 E14
Covering Frequency	DC~40GHz
Center Conductor	Ø0.9 mm (Solid)
Jacket	Ø9.0mm
Recommended Min. Bend Radius	25mm
Phase Stability vs Flexure	< 6°
Amplitude Stability in Insertion Loss	± 0.1dB
Operating Temperature Range	-55 ~ +150°C
Impedance (Nominal)	50 Ohm
Velocity Of Propagation	83%
Time Delay	3.95 ns/m
Shielding Effectiveness	> 90dB

Frequency / Attenuation (Typical) / CW Max Power @ Sea Level 25°C

GHz	P35 E14	
1	0.26 dB/m	620 W
18	1.55 dB/m	252 W
26.5	2.10 dB/m	145 W
40	2.64 dB/m	96 W

Note:

- Insertion Loss does not include the loss of the connectors.
- Insertion loss can be estimated as 0.04 x Sqrt (GHz)dB per connector.

Available Interfaces (Typical VSWR – 1.25:1 only up to 2m length)

GHz	P35 E14
2.4mm (Male & Female)	✓
2.92mm K (Male & Female)	✓