



PFP400UF Ultra Flexible Premium Low-Loss RF Communications Cable

PCTEL's PFP400UF Cable is optimized for longer RF cable runs that require the highest level of flexibility as well as low signal attenuation. Due to its elastomer jacket and stranded center conductor, PFP400UF provides industry leading flexibility while maintaining superior electrical performance.

PCTEL's PFP line of cable is specifically designed to optimize radio frequency communications from 30MHz up to 6GHz. PCTEL offers a complete line of bulk cable for large installation projects, premium pre-made cable assemblies, and a wide variety of connector types, including reverse polarity, are available for most PFP cable sizes.

Features

- Outdoor rated: UV stable jacket and water resistant construction
- Drop-in replacement for RG-8 and RG-9913
- High performance, lightweight design
- Ideal for RF applications including GPS, LMR, WLAN, SCADA, PTC, etc.

Electrical Characteristics

Capacitance (pF/ft)	Impedance (Ohms)	Velocity (%)	DC Resistance (Ω /1000ft)		Shielding Effectiveness (dB)
			Inner Conductor	Outer Conductor	
23.9	50	85	< 1.07	< 1.65	> 90

Jacket Spark (VAC)	Cut Off Frequency (GHz)	Peak Power (kW)
5000	16.2	16

Mechanical/Environmental Specifications

Bend Installation Radius (Min.)	Bend Repeated Radius (Min.)	Storage Temp.	Installation Temp.	Operating Temp.
25.4 mm	101.6 mm	-70 to +85°C -94 to +185°F	-40 to +85°C -40 to +185°F	-40 to +85°C -40 to +185°F

Construction Specifications

Cable Section	Material	Diameter
Jacket	Thermoplastic Elastomer	.405 in (10.29mm)
Braid	Tin Plated Copper	.320 in (8.13mm)
Outer Conductor	Aluminum Tape	.291 in (7.7.39mm)
Dielectric	Foam Polyethylene	.285 in (7.25mm)
Inner conductor	Stranded BC	.108 in (2.74mm)

Typical Attenuation By Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	0.8 dB
50 MHz	1.1 dB
150 MHz	1.8 dB
220 MHz	2.2 dB
450 MHz	3.3 dB
700 MHz	4.1 dB
800 MHz	4.4 dB
900 MHz	4.7 dB
1500 MHz	6.2 dB
2000 MHz	7.2 dB
2500 MHz	8.1 dB
5800 MHz	13.0 dB

Ordering Information*

Part Number	Description
PFP400UF-REEL-1K	1000ft Reel of PFP400UF Premium Cable
PFP400UF-REEL-500	500ft Reel of PFP400UF Premium Cable

*Standard configuration. Please contact PCTEL Customer Service at (800)323-9122 for custom reel size and Custom Cable Assemblies.