



PFP600 Premium Ultra Low-Loss RF Communications Cable

PCTEL's PFP600 Cable is ideal for long RF cable runs that require low levels of signal attenuation. With a more flexible construction, PFP600 is able to maintain a significantly tighter bend radius than cables with a similar loss profile. The combination of flexibility and electrical performance make PFP400 the reliable choice for installers in even the most demanding environments.

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.



Typical Attenuation By Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	.4 dB
50 MHz	.5 dB
150 MHz	1.0 dB
220 MHz	1.2 dB
450 MHz	1.7 dB
700 MHz	2.18 dB
800 MHz	2.35 dB
900 MHz	2.5 dB
1500 MHz	3.3 dB
2000 MHz	3.9 dB
2500 MHz	4.4 dB
5800 MHz	7.3 dB

Ordering Information*

Part Number	Description
PFP600-REEL-1K	1000ft Reel of PFP600 Premium Cable

Features

- Outdoor rated: UV stable jacket and water resistant construction
- Robust design for indoor and outdoor use
- 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	
23.4	50	87	< 0.53	< 1.2	> 90

Jacket Spark (VAC)	Cut Off Frequency (GHz)	Peak Power (kW)
5000	10.3	40

Mechanical/Environmental Specifications

Bend Installation Radius (Min.)	Bend Repeated Radius (Min.)	Storage Temp.	Installation Temp.	Operating Temp.
38.1 mm	152.4 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	Polyethylene	.590 in(14.99mm)
Braid	Tin Plated Copper	.490 in (12.45mm)
Outer Conductor	Aluminum Tape	.461 in (11.71mm)
Dielectric	Foam Polyethylene	.455 in (11.56mm)
Inner conductor	Solid BCCAI	.176 in (4.47mm)

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