

PFP400 Premium Ultra Low-Loss RF Communications Cable



The PCTEL® PFP400 cable is ideal for long RF cable runs that require low levels of signal attenuation. With a more flexible construction, PFP400 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.

Standard Configurations*

Part Number	Length
PFP400-REEL-1K	1000-ft reel
PFP400-REEL-500	500-ft reel

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

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.

SPECIFICATIONS

PFP400 CABLES

Typical Attenuation by Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	0.7 dB
50 MHz	0.9 dB
150 MHz	1.5 dB
220 MHz	1.9 dB
450 MHz	2.7 dB
700 MHz	3.4 dB
800 MHz	3.67 dB
900 MHz	3.9 dB
1500 MHz	5.1 dB
2000 MHz	6.0 dB
2500 MHz	6.8 dB
5800 MHz	10.8 dB

Electrical Characteristics

Specification	Measurement
Capacitance	23.9 pF/ft
Impedance	50 Ω
Velocity	85%
DC Resistance	Inner conductor Outer conductor
	< 1.39 Ω /1000 ft < 1.65 Ω /1000 ft
Shielding Effectiveness	> 90 dB
Jacket Spark	5000 VAC
Cut-Off Frequency	17 GHz
Peak Power	16 kW

Mechanical/Environmental Specifications

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

For more information
about this product
contact your sales
representative or visit
> pctel.com/cables

Construction Specifications

Cable Section	Material	Diameter
Jacket	Polyethylene	.405 in (10.29 mm)
Braid	Tin Plated Copper	.320 in (8.13 mm)
Outer Conductor	Aluminum Tape	.291 in (7.39 mm)
Dielectric	Foam Polyethylene	.285 in (7.25 mm)
Inner Conductor	Solid BCCAl	.108 in (2.74 mm)



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