

PFP600 Premium Ultra Low-Loss RF Communications Cable



The PCTEL® 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 PFP600 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
PFP600-REEL-1K	1000-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
- Robust design for indoor and outdoor use
- High-performance, lightweight design
- Ideal for RF applications including GPS, LMR, WLAN, SCADA, PTC, etc.

SPECIFICATIONS

PFP600 CABLES

Typical Attenuation by Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	0.4 dB
50 MHz	0.5 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

Electrical Characteristics

Specification	Measurement
Capacitance	23.4 pF/ft
Impedance	50 Ω
Velocity	80%
DC Resistance	Inner conductor Outer conductor
	< 0.53 Ω /1000 ft < 1.2 Ω /1000 ft
Shielding Effectiveness	> 90 dB
Jacket Spark	5000 VAC
Cut-Off Frequency	10.3 GHz
Peak Power	40 kW

Mechanical/Environmental Specifications

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



PCTEL, Inc.

T: +1 630 372 6800 | pctel.com

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