

PFP240UF Ultra Flexible Premium Low-Loss RF Communications Cable



The PCTEL® PFP240UF 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, PFP240UF 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.

Standard Configurations*

Part Number	Length
PFP240UF-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
- Easily routed, flexible construction
- High-performance, lightweight design
- Ideal for RF applications including GPS, LMR, WLAN, SCADA, PTC, etc.

SPECIFICATIONS

PFP240UF CABLES

Typical Attenuation by Frequency

Frequency	Attenuation (dB/100ft)
30 MHz	1.6 dB
50 MHz	2.1 dB
150 MHz	3.6 dB
220 MHz	4.4 dB
450 MHz	6.3 dB
700 MHz	8.0 dB
800 MHz	8.5 dB
900 MHz	9.1 dB
1500 MHz	11.8 dB
2000 MHz	13.0 dB
2500 MHz	15.5 dB
5800 MHz	24.4 dB

Electrical Characteristics

Specification	Measurement
Capacitance	24.2 pF/ft
Impedance	50 Ω
Velocity	84%
DC Resistance	Inner conductor Outer conductor
	< 4.28 Ω /1000 ft < 3.89 Ω /1000 ft
Shielding Effectiveness	> 90 dB
Jacket Spark	5000 VAC
Cut-Off Frequency	31 GHz
Peak Power	5.6 kW

Mechanical/Environmental Specifications

Specification	Measurement
Bend Installation Radius (Min.)	19.1 mm
Bend Repeated Radius (Min.)	63.5 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	Thermoplastic Elastomer	.240 in (6.10 mm)
Braid	Tin-Plated Copper	.178 in (4.52 mm)
Outer Conductor	Aluminum Tape	.155 in (3.94 mm)
Dielectric	Foam Polyethylene	.150 in (3.81 mm)
Inner Conductor	Stranded BC	.056 in (1.42 mm)



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