

PCT-400 50 Ohm Coaxial Cable, foil/braid shield, black polyethylene jacket.

Ideal for many applications:

- Jumper Assemblies in wireless communication Systems
- Drop-in replacement for RG-8/9913 Air-Dielectric type Cable
- Short Antenna Feeder runs
- Any application (e.g. WLL, GPS, LMR, WLAN, WISP, WiMax, SCADA, Mobile Antennas) requiring an easily routed, low loss RF cable



FEATURES & BENEFITS

- PCT 50 ohm cables are available in the following categories:
PE: Indoor/Outdoor General Use
DB: Direct Burial Corrosion Resistant
FR: Flame Retardant
- **Flexibility** - The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.
- **Low Loss** - Size for size the PCT-400 cable has the lowest loss of any flexible cable and comparable loss to semi-rigid hard-line cables.
- **RoHS Compliant** - 2002/95/EC on the Restriction of Hazardous Substances
- **RF Shielding** - Is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor plus tinned copper braid is rated conservatively at > 90 dB (i.e. >180dB between two adjacent cables).
- **Weather Resistant** - Designed for outdoor exposure the PCT-400 cables incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- **Connectors** - A wide variety of connectors are available for the PCT-400 cable, including all common interface types, reverse polarity, and a choice of solder or non-solder center pins.



SPECIFICATIONS

PCT-400			
Mechanical Specifications		Environmental Specifications	
Minimum Bending Radius, in (mm)	1.0 (25.4)	Storage Temperature, °C (°F)	-70 to +85 (-94 to +185)
Bending Moment lb-ft (N•m)	0.5 (0.68)	Installation Temperature, °C (°F)	-40 to +85 (-40 to +185)
Cable Weight lb/ft (kg/m)	0.068 (0.10)	Operating Temperature, °C (°F)	-40 to +85 (-40 to +185)
Tensile Strength lb (kg)	160 (72.6)		
Flat Plate Crush Strength lb/in (kg/mm)	40 (0.71)	Electrical Specifications	
Construction Materials		Operating Frequency Band	30 – 6,000 MHz
Inner Conductor	Solid BCCAI	Velocity	85%
Dielectric Foam	Polyethylene	DC Breakdown	2900 Volts
Outer Conductor	Aluminum Tape	Peak Power Rating	10.3 kW
Overall Braid	Tinned Copper	DC Resistance Ω/1000ft (1000m)	
Outer Jacket	Polyethylene	Inner Conductor	1.37 (4.49)
Color	Black	Outer Conductor	1.71 (5.61)
Dimensions		Jacket Spark, volts RMS	8000
Diameter Inner Conductor, in (mm)	.108 (2.74)	Capacitance, pF/ft (m)	23.9 (78.40)
Diameter Dielectric, in (mm)	0.285 (7.24)	Shielding Effectiveness	dB >90
Diameter Overall Braid, in (mm)	0.318 (8.08)	Phase Stability, ppm/°C	<10
Diameter over Jacket, in (mm)	0.405 (10.29)		



Attenuation			
MHz	dB/100ft	dB/100m	Average Power/kW
30	.76	2.5	3.30
50	.97	3.2	2.60
150	1.5	5.0	1.50
220	1.9	6.0	1.20
450	2.7	8.8	.83
900	3.9	12.7	.58
1500	5.0	16.6	.44
1800	5.6	18.4	.40
2000	5.9	19.4	.37
2500	6.7	22.0	.33
5800	10.8	35.5	.21

PCT-400 Cable (Part Number)	Length	Description
PCT-400-150M	150m	50 Ohm, Black PE Jacket, Standard Outdoor
PCT-400-300M	300m	50 Ohm, Black PE Jacket, Standard Outdoor
PCT-400-500M	500m	50 Ohm, Black PE Jacket, Standard Outdoor
PCT-400-DB-150M	150m	50 Ohm, Black PE Jacket, Direct Burial Cable
PCT-400-DB-300M	300m	50 Ohm, Black PE Jacket, Direct Burial Cable
PCT-400-DB-500M	500m	50 Ohm, Black PE Jacket, Direct Burial Cable
PCT-400-FR-150M	150m	50 Ohm, Black LSZH Jacket, Fire Retardant
PCT-400-FR-300M	300m	50 Ohm, Black LSZH Jacket, Fire Retardant
PCT-400-FR-500M	500m	50 Ohm, Black LSZH Jacket, Fire Retardant