



COAXIAL PRODUCTS

COAX PRODUCTS

- Custom and ready-made assemblies for many industries including:
 - Oil & Gas
 - LMR
 - SCADA
 - Smart Grid & Metering
 - Government & Defense
 - Telecommunications
 - Enterprise
 - Healthcare
 - Education
 - Manufacturing
- Offering quality products and highly competitive pricing
- State-of-the-art cable assembly manufacturing facility
- Precision measured custom cable assemblies using Automated Cutting & Stripping equipment
- Short lead times on custom assemblies. Large inventory of products
- Stringent quality control procedures using calibrated bench top analyzers and pull test measurement tools
- Custom labeling and packaging available

OUR CAPABILITIES

- Manufacturing locations in the USA & Asia
- State-of-the-art Stargate 24 Anechoic antenna test chambers
- Schleuniger PS9500 Automated Power Cutting, Stripping & Spooling machines, calibrated daily
- Many Rohde & Schwartz, HP and Agilent Spectrum Analyzers
- Pneumatic Crimp Machines
- The latest in electrical simulation and mechanical design software tools
- In-house environmental test facilities
- Quick turn engineering and 3D design capabilities
- Custom Design and Project Management services
- ISO9001: 2008 Certified
- NASDAQ:PCTI



LOW LOSS CABLES 50 OHMS

SPECIFICATIONS:						
- Impedance: 50 ohms - Foamed Polyethylene 100% Bonded Aluminum Foil - Tinned Copper Braid - CuSn - Flame-retardant PVC - Polyethylene Jacket - Ft markings						
Type		PFP100A	PFP195	PFP240	PFP400	PFP600
Item no.	500ft	NA	NA	NA	PFP400-500	PFP600-500
Item no.	1000ft	PFP100A-1000	PFP195-1000	PFP240-1000	PFP400-1000	PFP600-1000
Center Conductor	ø mm	0.46 Solid BCCS	0.94 Solid BC	1.42 Solid BC	2.74 Solid CCA	4.47 Solid CCA
Insulation	ø mm	1.52	2.8	3.81	7.24	11.56
Binder		Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil	Bonded Aluminum Foil
Shield	ø mm	0.10 x 80 CuSn	0.11 x 112 CuSn	0.12 x 144 CuSn	0.15 x 192 CuSn	0.18 x 240 CuSn
Insulation Jacket	ø mm	2.79	4.95	6.1	10.29	14.99
Min. Bending Radius	ø mm	6.4	12.7	19.1	25.4	38.1
Tensile Strength	kg	6.8	18.2	36.3	72.5	158.9
Attenuation (20 °C, dB/100 ft)	f = 30 MHz	3.93	1.98	1.34	0.67	0.43
	f = 50 MHz	5.09	2.56	1.74	0.88	0.55
	f = 100 MHz	7.25	3.66	2.50	1.31	0.85
	f = 150 MHz	8.96	4.45	3.02	1.52	0.98
	f = 220 MHz	10.91	5.39	3.66	1.86	1.19
	f = 450 MHz	15.82	7.77	5.27	2.71	1.71
	f = 900 MHz	22.83	11.12	7.56	3.90	2.50
	f = 1500 MHz	30.08	14.54	9.88	5.12	3.32
	f = 1800 MHz	33.22	16.00	10.85	5.67	3.69
	f = 2000 MHz	35.20	16.89	11.49	5.97	3.90
	f = 2500 MHz	39.80	19.02	12.92	6.77	4.42
	f = 3000 MHz	43.83	21.00	14.36	7.62	5.06
DC Resistance (Center Conductor)	Ω/km	266	24.94	10	3.07	1.74
DC Resistance (Center Conductor)	Ω/km	31.2	16	12.76	6.88	3.94
Insulation Resistance	Ω/km	5000	5000	5000	5000	5000
Dielectric Strength	Kv	1.6	1.6	1.6	1.6	1.6
Velocity Ratio	%	66%	80%	85%	87%	87%
Peak Power Rating	Kw	0.60	2.5	5.60	16	40
Cut-Off Frequency	GHz	90	41	31	16.2	10.3
Voltage Withstand	VDC	500	1000	1500	2500	4000
Capacitance		101.1pF +/- 3 per M	79.7pF +/- 3 per M	79.4pF +/- 3 per M	78.4pF +/- 3 per M	76.8pF +/- 3 per M
Screening factor at 1 - 1000MHz		> 90dB	> 90dB	> 90dB	> 90dB	> 90dB
Admissible ambient temperature	°C	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C	-40°C to 80°C
Packing		Wood Spool	Wood Spool	Wood Spool	Wood Spool	Wood Spool

CABLE ASSEMBLY PARTS NUMBER GUIDE

PCTEL's cable assemblies can be made in various lengths and connector options. Please refer to this template to determine available cable and connector options and to determine your configurator part number.

CBL - 240 - 120 - S1 - N9

Cable Series	Cable Type	Cable Length	Connector Type 1	Connector Type 2
Cable Assembly	PFP240 Coax	10Ft	SMA Male Non Bulkhead	N Female Bulkhead

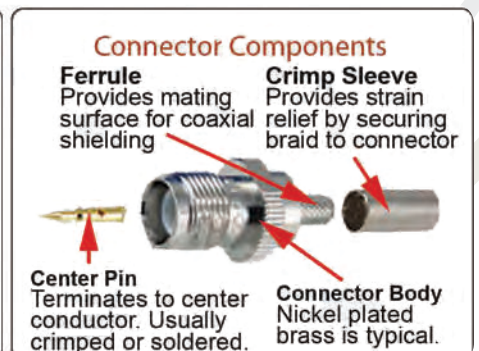
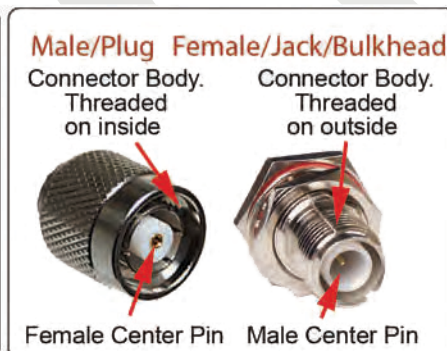
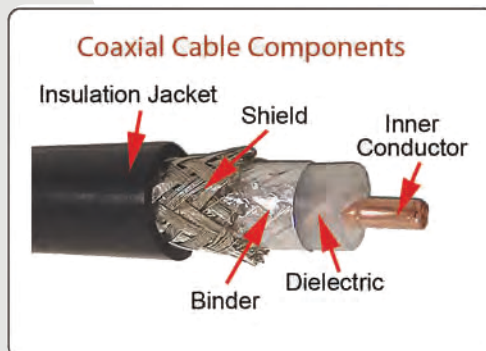
SERIES
CBL = Cable Assembly
CABLE TYPE
100 = PFP100A
195 = PFP195
240 = PFP240
241 = PFP240UF
400 = PFP400
401 = PFP400UF
600 = PFP600
196 = PFP195W
197 = PFP195P White Plenum

CABLE LENGTH
Cable is available in length by Inch. Longer cable will lead to higher potential signal loss (attenuation)
ex. 0018 = 18"
ex. 120 = 10Ft
ex. 1800 = 150Ft

CONNECTOR COMPATIBILITY
Connectors are not necessarily compatible with every cable type. Please inquire as to what configurations and inventory are available.

CONNECTOR TYPE 1 & 2
A = AP600
B = BNC
F = FME
M= Mini-UHF
N = N
O = U. FL
P = UHF (PL259/SO239)
S = SMA
T = TNC
U = SMB
X = MCX
Z = MMCX

POLARITY & GENDER
1 = Male
2 = Male reverse polarity
3 = Male right angle
4 = Female
5 = Female reverse polarity
6 = Female right angle
7 = Male soldered
8 = Female soldered
9 = Female bulkhead
10 = Female reverse polarity bulkhead



CONNECTORS



AP600 Right Angle Connector (AP600RT)



MC Right Angle Connector (MCRT)



MMCX Right Angle Connector (MMCXRT)



N Jack Panel Mount Connector (N-JPAN)



N Jack Connector (NJ)



N Jack Bulkhead Connector (NJBH)



N Plug Connector (NP)



RPNBC Jack Connector (RPNBCJ)



RPNBC Jack Bulkhead Connector (RPNBC-JBH)



RPTNC Plug Connector (RPNBCP)



Reverse SMA Jack (RPSMAJ)



RPSMA Jack Bulkhead Connector (RPSMAJBH)



RPSMA Plug Connector (RPSMAP)



RPTNC Bulkhead Connector (RPTNCBH)



RPTNC Jack Connector (RPTNCJ)



RP TNC Plug Connector (RPTNCP)



SMA Jack Bulkhead Connector (SMAJBH)



SMA Plug Connector (SMAJ)



TNC Plug Connector (TNCP)

Please refer to this template to determine connector and adapter options

ADAPTERS



RPNBCP-TNCJ



RPNBCP-RPTNCJ



NP-NJ



NP-RPTNCJ



NP-SMAJ



NP-NP



NP-TNCJ



NP-RPTNCJ



NP-TNCJ



NP-NJ



NP-NP-RT



NP-NP



RPNBCP-NJ



NJ-NJ



NJ-RPTNCP



NP-RPSMAP



NJ-RPSMAP (NP)



NJ-SMAP



NJ-RPSMAJ



NJ-SMAJ



RPTNCP-RPTNCP



RPTNCP-RPTNCP



RPTNCJ-RPSMAP



RPTNCJ-RPTNCJ



NJ-RPTNCP



SMAJ-SMAJ

BNC

P

- 400

Connector Series	Gender	Cable Type
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BNC

Plug

PFP-400 Coax

CONNECTOR TYPE

Connector Type = Connector Name

CONNECTOR TYPE 1 & 2

A = AP600

B = BNC

F = FME

M = Mini-UHF

N = N

O = O.FL

P = UHF (PL259/SO239)

S = SMA

T = TNC

U = SMB

X = MCX

Z = MMCX

CONNECTOR GENDER

P = Plug

J = Jack

BH = Bulkhead

CABLE TYPE

100 = PFP100A

195 = PFP195

240 = PFP240

240UF = PFP240UF

400 = PFP400

400UF = PFP400UF

600 = PFP600

195W = PFP195W (White)