

CA-PC230

PSATEK PTFE TEST CABLE ASSEMBLY WITH ARMOR, PC230, DC~50GHz

PSATEK

Specializing in RF & Microwave Components

FEATURES:

- Phase Stability
- Low Loss
- Low VSWR
- Armored & Rugged

APPLICATIONS

- Laboratory
- RF Test & Measurements
- Communication Systems

ELECTRICAL SPECIFICATIONS:

OPERATING FREQUENCY	DC~50GHz
IMPEDANCE	50 Ω
VSWR	$\leq 1.35@50\text{GHz}$
VELOCITY OF PROPAGATION	81%
SCREENING EFFECTIVENESS	90dB min
VOLTAGE RATING	500V, DC
PHASE STABILITY	$\pm 7^\circ$
AMPLITUDE STABILITY	$\pm 0.05\text{dB}$

ORDERING INFORMATION:

	CA - PC230 - 50 - 9F9M - 1
CABLE ASSEMBLY	
CABLE TYPE	
MAX FREQUENCY(GHz)	
RF CONNECTORS	
(9F9M :2.92mm female - 2.92mm male)	
SMA:S - 2.92mm:9 - 2.4mm:4 - 3.5mm:5 - N type:N	
OVERALL LENGTH (m)	

PERFORMANCES BY FREQUENCIES(25°C / Sea Level)

FREQUENCY	GHz	0.5	1	3	6	10	12.4	18	26.5	40	50
ATTENUATION, MAX	dB/100m	30.9	43.8	76.4	108.8	141.5	158.1	191.8	234.8	291.7	328.5
INPUT POWER(CW), MAX	Watts	1245	878	503	353	272	243	200	164	132	117

ENVIROMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE	-55°C ~ +125 °C
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MECHANICAL OUTLINE(mm):

MECHANICAL SPECIFICATIONS

MIN BENDING RADIUS/SINGLE	30mm
MIN BENDING RADIUS/REPEATED	60mm
BENDING LIFE CYCLE	100,000

CONSTRUCTION SPECIFICATIONS:

CENTER CONDUCTOR①	Solid SPC	0.72mm
DIELECTRIC CORE②	LD PTFE	2.21mm
OUTER CONDUCTOR③	SPC Ribbon	2.38mm
STABLE LAYER④	LD PTFE	2.68mm
INNER BRAIDING⑤	SPC	3.14mm
JACKET⑥	FEP	3.60mm
ARMOR⑦~⑨	Composite	5.45mm
BRAIDED OUTER JACKET⑩	PTFE	6.10mm



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5F, Unit 1, Bldg 4, No. 486,
Guanghua East, 3rd Road,
Qingyang District, Chengdu, China

Phone: +86 17882494562

Email: sales@psatek.com

www.psatek.com