

CA-PC280

PSATEK PTFE TEST CABLE ASSEMBLY WITH ARMOR, PC280, DC~40GHz

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~40GHz
IMPEDANCE	50 Ω
VSWR	$\leq 1.35@40\text{GHz}$
VELOCITY OF PROPAGATION	81%
SCREENING EFFECTIVENESS	90dB min
VOLTAGE RATING	500V, DC
PHASE STABILITY	$\pm 5^\circ$
AMPLITUDE STABILITY	$\pm 0.05\text{dB}$

ORDERING INFORMATION:

	CA - PC280 - 40 - 9F9M - 1
CABLE ASSEMBLY	
CABLE TYPE	
MAX FREQUENCY(GHz)	
RF CONNECTORS	
(9F9M :2.92mm female - 2.92mm male)	
SMA:S - 2.92mm:9 - 3.5mm:5 - N type:N	
OVERALL LENGTH (m)	

PERFORMANCES BY FREQUENCIES(25°C / Sea Level)

FREQUENCY	GHz	0.3	1	3	6	8.5	12.4	18	26.5	33	40
ATTENUATION, MAX	dB/100m	21.5	39.4	68.8	98.1	117.4	142.7	173.3	212.3	238.4	264.1
INPUT POWER(CW), MAX	Watts	1040	567	325	228	190	157	129	105	94	85

ENVIROMENTAL SPECIFICATIONS:

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

MECHANICAL SPECIFICATIONS

MIN BENDING RADIUS/SINGLE	40mm
MIN BENDING RADIUS/REPEATED	70mm
BENDING LIFE CYCLE	100,000

CONSTRUCTION SPECIFICATIONS:

CENTER CONDUCTOR①	Solid SPC	1.02mm
DIELECTRIC CORE②	LD PTFE	2.70mm
OUTER CONDUCTOR③	SPC Ribbon	2.95mm
STABLE LAYER④	LD PTFE	3.20mm
INNER BRAIDING⑤	SPC	3.62mm
JACKET⑥	FEP	4.20mm
ARMOR⑦~⑨	Composite	6.40mm
BRAIDED OUTER JACKET⑩	PTFE	7.00mm



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