

# CA-PA320

PSATEK LOW LOSS&PHASE STABLE CABLE ASSEMBLY, PA320, DC~18GHz

# PSATEK

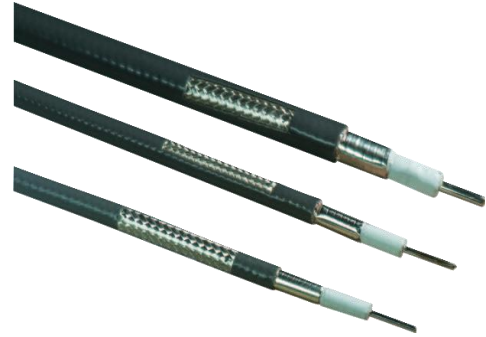
Specializing in RF & Microwave Components

## FEATURES:

- High Phase Stability
- Low Loss
- Low PIM
- Light Weight

## APPLICATIONS

- Laboratory
- RF Test & Measurements
- Communication Systems
- Avionics



## ELECTRICAL SPECIFICATIONS:

|                         |                      |
|-------------------------|----------------------|
| OPERATING FREQUENCY     | DC~18GHz             |
| MAX OPERATING FREQUENCY | 18GHz                |
| IMPEDANCE               | 50 Ω                 |
| VELOCITY OF PROPAGATION | 83%                  |
| SCREENING EFFECTIVENESS | 90dB min             |
| VOLTAGE RATING          | 2500V, DC            |
| PASSIVE INTERMOD        | -155dBc              |
| PHASE STABILITY         | 750PPM@-55℃~+85℃ max |

## ORDERING INFORMATION:

|                               |                              |
|-------------------------------|------------------------------|
| CABLE ASSEMBLY                | CA - PA320 - 18 - SFSM - 0.5 |
| CABLE TYPE                    |                              |
| STOP FREQUENCY(GHz)           |                              |
| RF CONNECTORS                 |                              |
| (SFSM :SMA female - SMA male) |                              |
| SMA:S - N-type:N              |                              |
| OVERALL LENGTH (m)            |                              |

## PERFORMANCES BY FREQUENCIES(25℃ / Sea Level)

| FREQUENCY            | GHz     | 0.1  | 0.3  | 0.5  | 1    | 3    | 6    | 10   | 12.4 | 18   |
|----------------------|---------|------|------|------|------|------|------|------|------|------|
| ATTENUATION, MAX     | dB/100m | 4.2  | 7.4  | 9.6  | 13.7 | 24.1 | 34.8 | 45.8 | 51.5 | 63.3 |
| INPUT POWER(CW), MAX | Watts   | 6108 | 3503 | 2701 | 1894 | 1071 | 742  | 564  | 502  | 409  |

## ENVIROMENTAL SPECIFICATIONS:

|                       |            |
|-----------------------|------------|
| OPERATING TEMPERATURE | -55℃~+165℃ |
|-----------------------|------------|

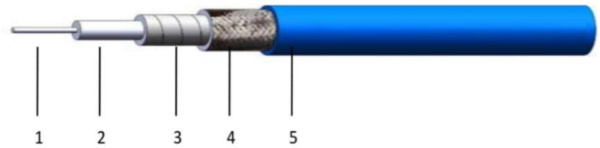
## MECHANICAL SPECIFICATIONS

|                             |        |
|-----------------------------|--------|
| MIN BENDING RADIUS/SINGLE   | 40.5mm |
| MIN BENDING RADIUS/REPEATED | 81mm   |
| WEIGHT                      | 146g/m |

## CONSTRUCTION SPECIFICATIONS:

|                  |                            |         |
|------------------|----------------------------|---------|
| INNER CONDUCTOR① | Silver-plated Copper       | 2.40mm  |
| DIELECTRIC②      | PTFE                       | 6.40mm  |
| FIRST SHIELD③    | Silver-plated Copper Tape  | 6.64mm  |
| SECOND SHIELD④   | Silver-plated Copper Braid | 7.10mm  |
| JACKET⑤          | FEP                        | 8.10mm. |

## MECHANICAL OUTLINE(mm):



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