

# CA-PSF086

PSATEK SEMI-FLEXIBLE CABLE ASSEMBLY, PSF086, DC~6GHz

## FEATURES:

- Applicable in Frequencies up to 6GHz
- Handformable
- High RF Shielding>100dB

## APPLICATIONS

- Laboratory
- Communication Systems



## ELECTRICAL SPECIFICATIONS:

|                         |                     |
|-------------------------|---------------------|
| OPERATING FREQUENCY     | DC~6GHz             |
| MAX OPERATING FREQUENCY | 61GHz               |
| IMPEDANCE               | $50 \pm 2.0 \Omega$ |
| CAPACITANCE             | 100pF/m             |
| VELOCITY OF PROPAGATION | 70%                 |
| SCREENING EFFECTIVENESS | 100dB min.          |
| VOLTAGE RATING          | 1000V, DC           |
| TIME DELAY              | 4.7nS/m             |

## ORDERING INFORMATION:

|                                     |                              |
|-------------------------------------|------------------------------|
|                                     | CA - PSF086 - 6 - KMKF - 0.5 |
| CABLE ASSEMBLY                      |                              |
| PSATEK SEMI-FLEXIBLE 086            |                              |
| STOP FREQUENCY(GHz)                 |                              |
| RF CONNECTORS                       |                              |
| (KMKF :2.92mm male - 2.92mm female) |                              |
| OVERALL LENGTH (m)                  |                              |

## PERFORMANCES BY FREQUENCIES(25 °C / Sea Level)

| FREQUENCY            | GHz     | 0.15  | 0.3   | 0.5   | 1     | 2.4    | 3      | 4      | 5     | 6      |
|----------------------|---------|-------|-------|-------|-------|--------|--------|--------|-------|--------|
| ATTENUATION, MAX     | dB/100m | 26.65 | 38.13 | 49.79 | 71.87 | 115.59 | 130.81 | 153.72 | 174.5 | 193.77 |
| INPUT POWER(CW), MAX | Watts   | 193   | 135   | 103   | 72    | 44     | 39     | 33     | 29    | 27     |

## ENVIROMENTAL & MECHANICAL SPECIFICATIONS:

|                       |                 |
|-----------------------|-----------------|
| OPERATING TEMPERATURE | -55°C ~ +150 °C |
| SINGLE BEND RADIUS    | 10mm            |
| REPEATED BEND RADIUS  | 20mm            |

## CONSTRUCTION SPECIFICATIONS:

|                  |                                            |                          |
|------------------|--------------------------------------------|--------------------------|
| INNER CONDUCTOR① | Silver-plated Copper                       | $0.52 \pm 0.02\text{mm}$ |
| DIELECTRIC②      | PTFE                                       | $1.65 \pm 0.05\text{mm}$ |
| OUTER CONDUCTOR③ | Tinned Copper Wier<br>Braid and Tin Soaked | $2.15 \pm 0.05\text{mm}$ |

## MECHANICAL OUTLINE(mm):

