

## CAC Technology® Data Sheet

RF Coaxial Cable P/N: 47P2\_FEP

### Description

47P2\_FEP

the double shield of Tape&Braid flexible coaxial cable, high performance microwave cable.



### Construction

|                 |                              |             |
|-----------------|------------------------------|-------------|
| Inner Conductor | ① Silver Plated Copper       | 1.29mm±0.02 |
| Dielectric      | ② LD PTFE                    | 3.92mm      |
| Outer Conductor | ③ Silver Plated Copper Tape  | 4.30mm      |
| Braiding        | ④ Silver Plated Copper Braid | 4.75±0.05   |
| Jacket          | ⑤ FEP, Light Blue            | 5.20±0.10   |

### Electrical Data

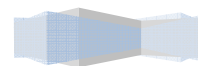
|                                |                   |
|--------------------------------|-------------------|
| Impedance                      | 50 ohm            |
| Max. operating frequency       | 26.5 GHz          |
| Velocity of signal propagation | 76%               |
| Shielding effectiveness        | > 100 dB (@1 GHz) |
| Max. operating voltage         | 2500V             |

### Mechanical Data

|                     |               |
|---------------------|---------------|
| Weight              | 60g/ m        |
| Min. bending radius | static 26 mm  |
|                     | dynamic 52 mm |

### Environmental Data

|                   |                   |
|-------------------|-------------------|
| Temperature range | -55 °C ~ + 200 °C |
| 2011/65/EU (RoHS) | compliant         |



**Attenuation & CW Power**

| Frequency | Attenuation | Attenuation | CW Power |
|-----------|-------------|-------------|----------|
| GHz       | dB/100m     | dB/100ft    | W        |
| 1         | 28.43       | 8.66        | 745.32   |
| 2         | 40.55       | 12.36       | 522.45   |
| 3         | 50.00       | 15.24       | 423.76   |
| 4         | 58.06       | 17.70       | 364.96   |
| 5         | 65.23       | 19.88       | 324.84   |
| 6         | 71.76       | 21.87       | 295.24   |
| 7         | 77.83       | 23.72       | 272.25   |
| 8         | 83.51       | 25.45       | 253.72   |
| 9         | 88.88       | 27.09       | 238.38   |
| 10        | 94.00       | 28.65       | 225.40   |
| 11        | 98.90       | 30.14       | 214.25   |
| 12        | 103.60      | 31.58       | 204.52   |
| 13        | 108.14      | 32.96       | 195.94   |
| 14        | 112.52      | 34.30       | 188.30   |
| 15        | 116.78      | 35.59       | 181.44   |
| 16        | 120.91      | 36.85       | 175.23   |
| 17        | 124.94      | 38.08       | 169.59   |
| 18        | 128.86      | 39.28       | 164.42   |
| 19        | 132.70      | 40.45       | 159.67   |
| 20        | 136.45      | 41.59       | 155.28   |
| 21        | 140.12      | 42.71       | 151.21   |
| 22        | 143.73      | 43.81       | 147.42   |
| 23        | 147.26      | 44.88       | 143.88   |
| 24        | 150.73      | 45.94       | 140.57   |
| 25        | 154.14      | 46.98       | 137.46   |
| 26        | 157.50      | 48.00       | 134.53   |
| 26.5      | 159.15      | 48.51       | 133.13   |

|         |                    |                     |
|---------|--------------------|---------------------|
| Version | Drawn/date         | Check/date          |
| 01      | Jinyuan 2012.10.18 | wangzhen 2012.10.19 |

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