

## CAC Technology® Data Sheet

RF Coaxial Cable P/N: 36S2\_FEP

### Description

36S2\_FEP

the semi-flexible coaxial cable with FEP jacket.



### Construction

|                 |                           |             |
|-----------------|---------------------------|-------------|
| Inner Conductor | ① Silver Plated Copper    | 0.91mm±0.02 |
| Dielectric      | ② Solid PTFE              | 3.00mm      |
| Outer Conductor | ③ Tin Soaked Copper Braid | 3.60±0.05   |
| Jacket          | ④ FEP, Blue               | 4.1±0.1     |

### Electrical Data

|                                |                  |
|--------------------------------|------------------|
| Impedance                      | 50 ohm           |
| Max. operating frequency       | 20 GHz           |
| Velocity of signal propagation | 70%              |
| Shielding effectiveness        | >100 dB (@1 GHz) |
| Max. operating voltage         | 2000V            |

### Mechanical Data

|                     |              |
|---------------------|--------------|
| Weight              | 51g/ m       |
| Min. bending radius | static 18 mm |
|                     | dynamic 40mm |

### Environmental Data

|                   |                   |
|-------------------|-------------------|
| Temperature range | -55 °C ~ + 125 °C |
| 2011/65/EU (RoHS) | compliant         |



**Attenuation & CW Power**

| Frequency | Attenuation | Attenuation | CW Power |
|-----------|-------------|-------------|----------|
| GHz       | dB/100m     | dB/100ft    | W        |
| 1         | 37.65       | 11.48       | 297.16   |
| 2         | 55.43       | 16.90       | 201.83   |
| 3         | 69.95       | 21.32       | 159.95   |
| 4         | 82.77       | 25.23       | 135.17   |
| 5         | 94.52       | 28.81       | 118.37   |
| 6         | 105.49      | 32.15       | 106.06   |
| 7         | 115.88      | 35.32       | 96.55    |
| 8         | 125.81      | 38.35       | 88.92    |
| 9         | 135.37      | 41.26       | 82.65    |
| 10        | 144.61      | 44.08       | 77.37    |
| 11        | 153.58      | 46.81       | 72.85    |
| 12        | 162.32      | 49.47       | 68.93    |
| 13        | 170.85      | 52.08       | 65.48    |
| 14        | 179.21      | 54.62       | 62.43    |
| 15        | 187.40      | 57.12       | 59.70    |
| 16        | 195.44      | 59.57       | 57.24    |
| 17        | 203.35      | 61.98       | 55.02    |
| 18        | 211.14      | 64.36       | 52.99    |
| 19        | 218.82      | 66.70       | 51.13    |
| 20        | 226.40      | 69.01       | 49.42    |

| Version | Drawn/date         | Check/date          |
|---------|--------------------|---------------------|
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