

# .0865 Coaxial Cable – 50 Ω Semi-Rigid Tin-Plated Copper



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## EZ-86-TP/M17

∅.0865" Semi-Rigid Tin-Plated Copper Outer Conductor,  
SPCW Center Conductor, PTFE Dielectric, 50 Ω.



## Specifications

### DIMENSIONS

|                           |           |
|---------------------------|-----------|
| Center Conductor Diameter | 0.0201 in |
| Dielectric Diameter       | 0.0660 in |
| Outer Conductor Diameter  | 0.0865 in |

### MATERIALS

|                                  |        |
|----------------------------------|--------|
| Center Conductor Material        | SPCW   |
| Dielectric Material              | PTFE   |
| Outer Conductor Material         | Copper |
| Outer Conductor Plating Material | Tin    |
| RoHS Compliant                   | Yes    |

### MECHANICAL CHARACTERISTICS

|                              |                        |
|------------------------------|------------------------|
| Minimum Temperature          | -55 °C                 |
| Maximum Temperature          | +125 °C                |
| Inside Bend Radius (Minimum) | 0.125 in               |
| Weight                       | 1.40 lbs<br>per 100 ft |

### ELECTRICAL CHARACTERISTICS

|                             |                      |
|-----------------------------|----------------------|
| Nominal Impedance           | 50.0 Ω               |
| Nominal Impedance Margin    | ±1.5 Ω               |
| Velocity of Propagation     | 69.50%               |
| Shielding Effectiveness     | >165 db              |
| Voltage Withstanding        | 5000 VRMS<br>@ 60 Hz |
| Continuous Working Voltage  | 1500 VRMS<br>max     |
| Maximum Operating Frequency | 60 GHz               |

### Attenuation

| FREQUENCY | DB / 100 FT TYPICAL |
|-----------|---------------------|
| 0.5 GHz   | 13.5 db             |
| 1.0 GHz   | 19.5 db             |
| 5.0 GHz   | 46 db               |
| 10.0 GHz  | 68 db               |
| 18.0 GHz  | 94 db               |
| 26.5 GHz  | 120 db              |
| 40.0 GHz  | 160 db              |
| 50.0 GHz  | 186 db              |

### Power

| FREQUENCY | WATTS CW @ 20 °C (MAX) |
|-----------|------------------------|
| 0.5 GHz   | 235 W                  |
| 1.0 GHz   | 165 W                  |
| 5.0 GHz   | 70 W                   |
| 10.0 GHz  | 50 W                   |
| 18.0 GHz  | 35 W                   |
| 26.5 GHz  | 26 W                   |
| 40.0 GHz  | 20 W                   |
| 50.0 GHz  | 16 W                   |