



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ 47-TP/M17

SEMI RIGID, the formstable microwave cable

Cable Design



| | Material | Detail | Diameter |
|---------------------|------------|---------------|----------|
| Centre conductor: | StCuAg | Wire | 0.29 mm |
| Dielectric: | PTFE | | 0.93 mm |
| 1. Outer conductor: | Cu-TP Tube | 100% coverage | 1.19 mm |

Electrical Data

| | | |
|---------------------------------|-------|----------------------------------|
| Impedance: | 50 | Ω |
| Max. operating frequency: | 20 | GHz |
| Capacitance: | 105 | pF / m |
| Velocity of signal propagation: | 69.5 | % |
| Signal delay: | 4.8 | ns / m |
| Min. screening effectiveness: | > 120 | dB (up to 18 GHz) |
| Max. operating voltage: | 1 | kV _{rms} (at sea level) |

General Data

| | |
|-----------------------|-------------------|
| Temperature range: | -40 °C...+ 100 °C |
| Weight: | 0.71 kg / 100 m |
| Min. bending radius : | static 3.18 mm |

Suitable Connectors

Cable group Y2
(for details refer to the "Suhner Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **EZ 47-TP/M17** under article number **22810504**

WAIVER!

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Issued: 5.6.2002 10:34

Document: TEMP_PDB_2281050
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Matrix **Attenuation** [formula : $(a \cdot f^{0.5} + b \cdot f)$] and **Power CW** [formula : $(p / f^{0.5})$]

Coefficients:

a= 1.04044

b= 0.03967

f_{max} = 20

p_{at 1GHz} = 32

| Frequency (GHz) | Nom. attenuation (dB / m) sea level 25° C ambient temperature | Nom. attenuation (dB / ft) sea level 25° C ambient temperature | Max. CW power (watt) sea level 40° C ambient temperature |
|--------------------|--|---|---|
| 0.5 | 0.76 | 0.232 | 45 |
| 1 | 1.08 | 0.329 | 32 |
| 2 | 1.55 | 0.472 | 23 |
| 3 | 1.92 | 0.585 | 18 |
| 4 | 2.24 | 0.683 | 16 |
| 5 | 2.52 | 0.768 | 14 |
| 6 | 2.79 | 0.850 | 13 |
| 7 | 3.03 | 0.923 | 12 |
| 8 | 3.26 | 0.994 | 11 |
| 9 | 3.48 | 1.061 | 11 |
| 10 | 3.69 | 1.125 | 10 |
| 11 | 3.89 | 1.186 | 10 |
| 12 | 4.08 | 1.244 | 9 |
| 13 | 4.27 | 1.301 | 9 |
| 14 | 4.45 | 1.356 | 9 |
| 15 | 4.62 | 1.408 | 8 |
| 16 | 4.80 | 1.463 | 8 |
| 17 | 4.96 | 1.512 | 8 |
| 18 | 5.13 | 1.564 | 8 |
| 19 | 5.29 | 1.612 | 7 |
| 20 | 5.45 | 1.661 | 7 |

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