



SUHNER® MICROWAVE CABLE DATA SHEET

TYPE EZ_141_TP_M17

SEMI RIGID, the formstable microwave cable

Cable Design



| | Material | Detail | Diameter |
|---------------------|------------------------------------|---------------|-----------------|
| Centre conductor: | <i>Steel: Copper+Silver Plated</i> | <i>Wire</i> | 0.92 mm |
| Dielectric: | <i>PTFE (Polytetrafluorethyl.)</i> | | 2.99 mm |
| 1. Outer conductor: | <i>Copper / TP</i> | <i>Tube</i> | 3.58 mm |

Electrical Data

| | | |
|---------------------------------|-------|----------------------------------|
| Impedance: | 50 | Ω |
| Max. operating frequency: | 33 | GHz |
| Capacitance: | 98.1 | 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: | 1.9 | kV _{rms} (at sea level) |

General Data

| | |
|-----------------------|-------------------|
| Temperature range: | -40 °C...+ 125 °C |
| Weight: | 5.21 kg / 100 m |
| Min. bending radius : | static 4.78 mm |

Suitable Connectors

Cable group *Y5 / Y12*
 (for details refer to the "SUHNER Microwave Cables and Assemblies General Catalogue" or contact you nearest HUBER+SUHNER partner)

Notes

Order as **EZ_141_TP_M17**

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While the information contained in this folder has been carefully compiled to the best of our present knowledge, it is not intended as representation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.



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

Coefficients:

a= 0.32544

b= 0.03967

f_{max} = 33

p_{at 1GHz} = 450

| 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 |
|--------------------|--|---|---|
| 1 | 0.37 | 0.113 | 450 |
| 2 | 0.54 | 0.165 | 318 |
| 3 | 0.68 | 0.207 | 260 |
| 4 | 0.81 | 0.247 | 225 |
| 5 | 0.93 | 0.283 | 201 |
| 6 | 1.04 | 0.317 | 184 |
| 7 | 1.14 | 0.347 | 170 |
| 8 | 1.24 | 0.378 | 159 |
| 9 | 1.33 | 0.405 | 150 |
| 10 | 1.43 | 0.436 | 142 |
| 11 | 1.52 | 0.463 | 136 |
| 12 | 1.60 | 0.488 | 130 |
| 13 | 1.69 | 0.515 | 125 |
| 14 | 1.77 | 0.539 | 120 |
| 15 | 1.86 | 0.567 | 116 |
| 16 | 1.94 | 0.591 | 113 |
| 17 | 2.02 | 0.616 | 109 |
| 18 | 2.09 | 0.637 | 106 |
| 19 | 2.17 | 0.661 | 103 |
| 20 | 2.25 | 0.686 | 101 |
| 21 | 2.32 | 0.707 | 98 |
| 22 | 2.40 | 0.731 | 96 |
| 23 | 2.47 | 0.753 | 94 |
| 24 | 2.55 | 0.777 | 92 |
| 25 | 2.62 | 0.799 | 90 |
| 26 | 2.69 | 0.820 | 88 |
| 27 | 2.76 | 0.841 | 87 |
| 28 | 2.83 | 0.863 | 85 |
| 29 | 2.90 | 0.884 | 84 |
| 30 | 2.97 | 0.905 | 82 |
| 31 | 3.04 | 0.927 | 81 |
| 33 | 3.18 | 0.969 | 78 |

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