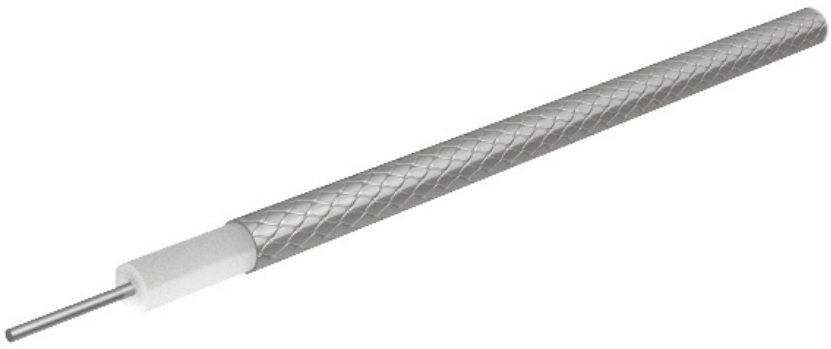
DATA SHEET

# Hand formable (RG401) 50Ohm, 18GHz, 165°C, ø6.3mm, no jacket

SUCOFORM_250-01

## Properties

- Hand-formable alternative to semi-rigid cables
- Small bend radius allows for space saving routing and packaging
- Performance comparable to semi-rigid cables



| Construction | | | |
|---|---|---|---|
| **Component** | **Material** | **Detail** | **Diameter** |
| Centre conductor | Copper, Silver plated | Wire | 1.67 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | | 5.24 mm |
| Outer conductor | Copper, Tin plated | Tin soaked braid, 100% | 6.3 mm |

| Electrical data | |
|---|---|
| Impedance | 50 Ω +/-2Ω |
| Operating frequency | ≤ 18 GHz |
| Capacitance | 95 pF/m |
| Velocity of signal propagation | 71 % |
| Signal delay | 4.7 ns/m |
| Screening effectiveness | 100 dB at frequency 1 GHz ... 18GHz |
| Insulation resistance | 100000000 MΩ*m |
| Inner conductor resistance | 8 Ω/km |
| Outer conductor resistance | 25 Ω/km |
| Operating Voltage (at sea level) | ≤ 3.5 kVrms |
| Test voltage (50 Hz/1 min) | ≤ 7.5 kVrms |

| Mechanical data | |
|---|---|
| Weight | approx. 125 g/m |
| Static bending radius | ≥ 30 mm |
| Repeated bending radius | 120 mm |

| Environmental data | |
|---|---|
| Operation temperature | -65 °C ... 165 °C |
| Installation temperature | -20 °C ... 60 °C |
| Flame propagation standard | IEC 60332-1 |
| | UL 1581 § 1080 (VW-1) |

# Hand formable (RG401) 50Ohm, 18GHz, 165°C, ø6.3mm, no jacket

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| Environmental data | |
|---|---|
| Fire characteristics | contains halogene |

| Material compliance | | | |
|---|---|---|---|
| Item number | Directive / Regulation | Rating | Exemptions / Details |
| 84007938 | RoHS 2011/65/EU and (EU) 2015/863 | Compliant without exemption | |
| | REACH 1907/2006 Article 33 SVHC | Free of SVHC >0,1% | |

| Suitable connectors | |
|---|---|
| Cable group | Y14 |

| Ordering information | | |
|---|---|---|
| Item number | Item description | Available as assembly only |
| 84007938 | SUCOFORM_250-01 | No |

| Power Matrix | | | |
|---|---|---|---|
| Calculation: typical Attenuation [ formula: (a*f^0.5 + b*f) ] and maximum Power CW [ formula: (p/f^0.5) ] | | | |
| a coefficient typical = | **0.21** | b coefficient typical = | **0.031** |
| fmax = | **18** | P at 1 GHz = | **920** |
| | | | |
| **Frequency** | **Nom. attenuation** | **Nom. attenuation** | **CW power** |
| **GHz** | **(dB/m)** | **(dB/ft)** | **(W)** |
| | sea level 25°C ambient temperature | sea level 25°C ambient temperature | sea level 40°C ambient temperature |
| 0.20 | 0.100 | 0.031 | 2057 |
| 0.40 | 0.145 | 0.044 | 1455 |
| 0.60 | 0.181 | 0.055 | 1188 |
| 0.80 | 0.213 | 0.065 | 1029 |
| 1.00 | 0.241 | 0.073 | 920 |
| 1.20 | 0.267 | 0.081 | 840 |
| 1.40 | 0.292 | 0.089 | 778 |
| 1.60 | 0.315 | 0.096 | 727 |
| 1.80 | 0.338 | 0.103 | 686 |
| 2.00 | 0.359 | 0.109 | 651 |
| 4.00 | 0.544 | 0.166 | 460 |
| 6.00 | 0.700 | 0.213 | 376 |
| 8.00 | 0.842 | 0.257 | 325 |
| 10.00 | 0.974 | 0.297 | 291 |
| 15.00 | 1.278 | 0.390 | 238 |
| 18.00 | 1.449 | 0.442 | 217 |

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