# Data Sheet

## Coaxial Cable
## SUCOFORM_141_CU_LSFH-01

## Description

SUCOFORM, the handformable microwave cable with protective jacket

## Technical Data

### Construction

| | Material | Detail | Diameter |
|---|---|---|---|
| Centre conductor | Copper, Silver plated | Wire | 0.95 mm |
| Dielectric | PTFE (Polytetrafluoroethylene) | | 2.95 mm |
| Outer conductor | Copper, Tin plated | Tin soaked braid, 100% | 3.58 mm |
| Jacket | LSFH (modified polyethylene) | RAL 2003 - or | 4.47 mm +/- 0.07 |

Print: HUBER+SUHNER SUCOFORM 141 CU LSFH-01 50 Ohm (PA no.)

### Electrical Data

| | |
|---|---|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 33 GHz |
| Capacitance | 92 pF/m |
| Velocity of signal propagation | 71 % |
| Signal delay | 4.7 ns/m |
| Insulation resistance | ≥ 1 x $10^8$ MΩm |
| Min. screening effectiveness | ≥ 100 dB (up to 4 GHz) |
| Max. operating voltage | ≤ 1.9 $kV_{rms}$ (at sea level) |
| Test voltage | 5 $kV_{rms}$ (50 Hz/1 min) |

### Mechanical Data

| | | |
|---|---|---|
| Weight | | 5.5 kg/100 m |
| Min. bending radius | static | 8 mm |
| | repeated (for ≤ 50 bendings) | 40 mm |

### Environmental Data

| | |
|---|---|
| Temperature range | -40 °C... +85 °C |
| Installation temperature | -20 °C... +60 °C |
| Flammability | IEC 60332-2, UL 1581 § 1100, |
| 2011/95/EC (RoHS) | compliant |

## Additional Information

### Ordering Information

| | |
|---|---|
| Order as | SUCOFORM_141_CU_LSFH-01 |

### Remarks

(For details refer to the HUBER+SUHNER MICROWAVE CABLES AND ASSEMBLIES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

### Suitable Connectors

| | |
|---|---|
| Cable group | Y12 3 mm / 50 Ohm |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| a = | 0.355 | b = | 0.04 | $f_{max}$ = | 33 | P at 1GHz = | 90 |

| Frequency | Nom. attenuation | Nom. attenuation | Max. CW power |
|---|---|---|---|
| (GHz) | (dB / m) | (dB / ft) | (watt) |
| | sea level 25° C ambient temperature | sea level 25° C ambient temperature | sea level 40° C ambient temperature |
| 1.65 | 0.52 | 0.159 | 70 |
| 3.3 | 0.78 | 0.237 | 50 |
| 4.95 | 0.99 | 0.301 | 40 |
| 6.6 | 1.18 | 0.358 | 35 |
| 8.25 | 1.35 | 0.411 | 31 |
| 9.9 | 1.51 | 0.461 | 29 |
| 11.55 | 1.67 | 0.509 | 26 |
| 13.2 | 1.82 | 0.554 | 25 |
| 14.85 | 1.96 | 0.598 | 23 |
| 16.5 | 2.1 | 0.641 | 22 |
| 18.15 | 2.24 | 0.682 | 21 |
| 19.8 | 2.37 | 0.723 | 20 |
| 21.45 | 2.5 | 0.763 | 19 |
| 23.1 | 2.63 | 0.802 | 19 |
| 24.75 | 2.76 | 0.840 | 18 |
| 26.4 | 2.88 | 0.878 | 18 |
| 28.05 | 3.0 | 0.915 | 17 |
| 29.7 | 3.12 | 0.952 | 17 |
| 31.35 | 3.24 | 0.988 | 16 |
| 33.0 | 3.36 | 1.024 | 16 |