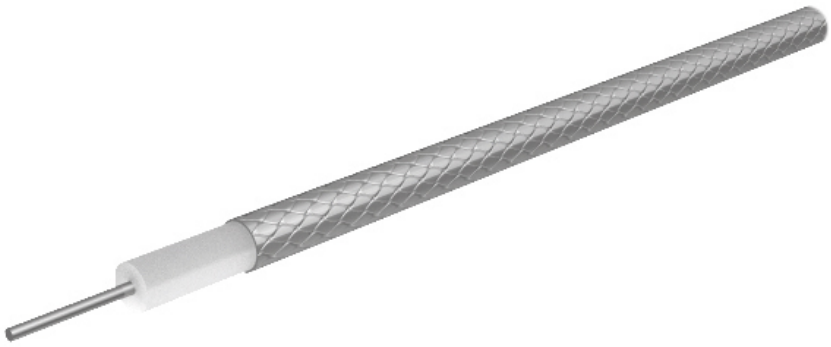
DATA SHEET

Hand formable (RG405) 50Ohm, 40GHz, 200°C, ø2.15mm no jacket

SUCOFORM_86_CT

Properties

- Hand-formable alternative to semi-rigid cables
- Small bend radius allows for space saving routing and packaging
- Performance comparable to semi-rigid cables
- Excellent phase vs. temperature performance for phase stable applications



Construction			
Component	**Material**	**Detail**	**Diameter**
Centre conductor	Copper, Silver plated	Wire	0.62 mm
Dielectric	Low density fluorine polymer		1.74 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 100%	2.15 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 40 GHz
Capacitance	83.5 pF/m
Velocity of signal propagation	80 %
Signal delay	4.2 ns/m
Screening effectiveness	100 dB at frequency 1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Outer conductor resistance	39 Ω/km
Operating Voltage (at sea level)	≤ 0.34 kVrms
Phase vs temperature	400 ppm within the temperature range -55 ... 125 °C
Phaase vs bending	5 °/GHz
Test voltage (50 Hz/1 min)	≤ 0.75 kVrms

Mechanical data	
Weight	approx. 16 g/m
Static bending radius	≥ 6 mm
Dynamic bending radius	< 20 mm

Hand formable (RG405) 50Ohm, 40GHz, 200°C, ø2.15mm no jacket

SUCOFORM_86_CT

Environmental data	
Operation temperature	-65 °C ... 200 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85030751	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	Y20

Ordering information		
Item number	Item description	Available as assembly only
85030751	SUCOFORM_86_CT	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 =	**0.5476**	b coefficient typical =	**0.0477**
fmax =	**40**	P at 1 GHz =	**165**
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	0.254	0.078	369
0.40	0.365	0.111	261
0.60	0.453	0.138	213
0.80	0.528	0.161	184
1.00	0.595	0.181	165
1.20	0.657	0.200	151
1.40	0.715	0.218	139
1.60	0.769	0.234	130
1.80	0.821	0.250	123
2.00	0.870	0.265	117
4.00	1.286	0.392	82
6.00	1.628	0.496	67
8.00	1.930	0.588	58
10.00	2.209	0.673	52
15.00	2.836	0.865	43
20.00	3.403	1.037	37
25.00	3.930	1.198	33
30.00	4.430	1.350	30
35.00	4.909	1.496	28
40.00	5.371	1.637	26

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P673 / Date of publication: 02.10.2026 / uncontrolled copy