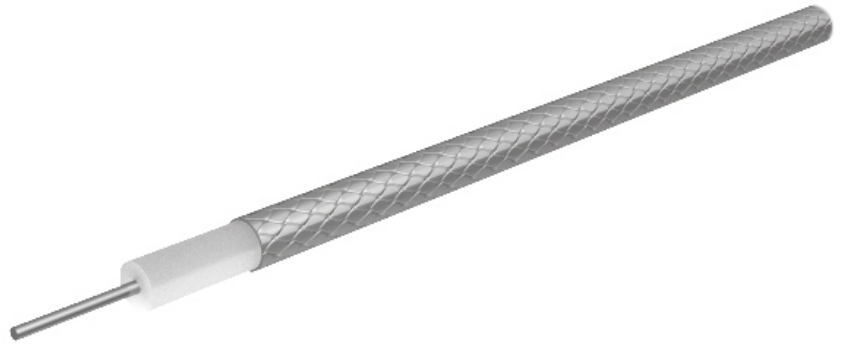


Hand formable (RG402) 50Ohm, 33GHz, 165°C, ø3.58mm no jacket

SUCOFORM_141

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	Steel, Copper + Silver plated	Wire	0.94 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Tin soaked braid, 99%	3.58 mm
Jacket	PE (Polyethylene)	RAL 3004 - rd	4.6 mm +/- 0.1 mm

Electrical data	
Impedance	50 Ω +/-2Ω
Operating frequency	≤ 33 GHz
Capacitance	92 pF/m
Velocity of signal propagation	71 %
Signal delay	4.7 ns/m
Screening effectiveness	100 dB at frequency 0.01 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	64 Ω/km
Outer conductor resistance	18 Ω/km
Operating Voltage (at sea level)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 40 g/m
Static bending radius	≥ 8 mm
Repeated bending radius	40 mm (bendings, up to 50)

Hand formable (RG402) 50Ohm, 33GHz, 165°C, ø3.58mm no jacket

SUCOFORM_141

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

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22511925	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	Y12

Ordering information		
Item number	Item description	Available as assembly only
22511925	SUCOFORM_141	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 =	0.355	b coefficient typical =	0.04
fmax =	33	P at 1 GHz =	425
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.167	0.051	950
0.40	0.241	0.073	672
0.60	0.299	0.091	549
0.80	0.350	0.107	475
1.00	0.395	0.120	425
1.20	0.437	0.133	388
1.40	0.476	0.145	359
1.60	0.513	0.156	336
1.80	0.548	0.167	317
2.00	0.582	0.177	301
4.00	0.870	0.265	212
6.00	1.110	0.338	174
8.00	1.324	0.404	150
10.00	1.523	0.464	134
15.00	1.975	0.602	110
20.00	2.388	0.728	95
25.00	2.775	0.846	85
30.00	3.144	0.958	78
33.00	3.359	1.024	74

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.

Hand formable (RG402) 50Ohm, 33GHz, 165°C, ø3.58mm no jacket
SUCOFORM_141

DOCUMENT PIM-P691 / Date of publication: 12.03.2026 / uncontrolled copy