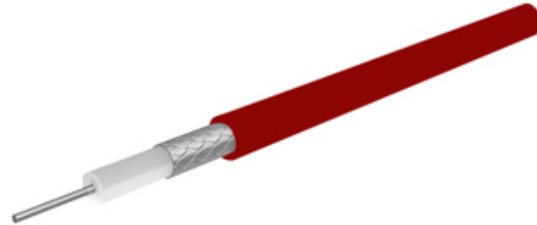


Hand formable (RG402) 50Ohm, 33GHz, 85°C, ø4.6mm, PE jacket

SUCOFORM_141_PE

Properties

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



Construction			
Component	Material	Detail	Diameter
Centre conductor	Steel, 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	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 0.1 GHz ... 18GHz
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	64 Ω/km
Operating Voltage (at sea level)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 47 g/m
Static bending radius	≥ 8 mm
Repeated bending radius	40 mm (bendings, up to 50)

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	contains halogene

Hand formable (RG402) 50Ohm, 33GHz, 85°C, Ø4.6mm, PE jacket

SUCOFORM_141_PE

Suitable connectors	
Cable group	Y12

Ordering information		
Item number	Item description	Available as assembly only
22511632	SUCOFORM_141_PE	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.355	b coefficient typical =	0.04
fmax =	33.0	P at 1 GHz =	90.0
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	201
0.40	0.241	0.073	142
0.60	0.299	0.091	116
0.80	0.350	0.107	101
1.00	0.395	0.120	90
1.20	0.437	0.133	82
1.40	0.476	0.145	76
1.60	0.513	0.156	71
1.80	0.548	0.167	67
2.00	0.582	0.177	64
4.00	0.870	0.265	45
6.00	1.110	0.338	37
8.00	1.324	0.404	32
10.00	1.523	0.464	28
15.00	1.975	0.602	23
20.00	2.388	0.728	20
25.00	2.775	0.846	18
30.00	3.144	0.958	16
33.00	3.359	1.024	16

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-P681 / Date of publication: 26.02.2024 / uncontrolled copy