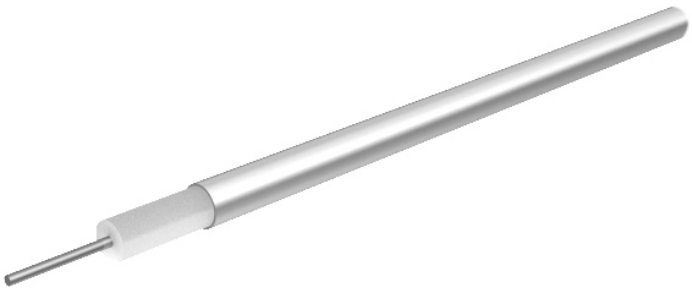
Data Sheet

Formable microwave cable
EZ_141_CT

Description

Semi-rigid: Semi-rigid, formable microwave cables

RG402 dimension, phase stable over temperature, 50 Ohm, 33 GHz, 200°C, ø3.58 mm, no jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Aluminium, Copper cladded, Silver plated	Wire	1.08 mm
Dielectric	Low density fluorine polymer		2.95 mm
Outer conductor	Aluminum / TP	Tube, 100%	3.58 mm

Electrical Data

Impedance		50 Ω +/- 2
Operating Frequency		33 GHz
Capacitance		80.2 pF/m
Velocity of signal propagation		83 %
Signal delay		4 ns/m
Screening effectiveness		≥ 120 dB (up to 18 GHz)
Operating voltage		≤ 1.9 kV_{rms} (at sea level)
Phase vs Temperature	-55°C... + 85°C	400 ppm

Mechanical Data

Weight		1.8 kg/100 m
Min. bending radius	static	10 mm
	repeated	

Environmental Data

Temperature range	-55 °C ... +200 °C
Installation temperature	-20 °C... +60 °C
Halogen free	No
2011/65/EU (RoHS)	compliant
2006/1907/EC (REACH)	compliant
2000/53/EC (ELV)	compliant
2012/19/EU (WEEE)	no special marking needed

Additional Information

Ordering Information

Order as	EZ_141_CT

Remarks

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

Suitable Connectors

Cable group	Y26 3mm / 50 Ohm

Data Sheet

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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 = 0.34	b = 0.02	f_{max} = 33	P at 1GHz = 364

Frequency	Nom. attenuation	Nom. attenuation	Max. 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
1,65	0,47	0,143	283
3,3	0,68	0,208	200
4,95	0,86	0,261	164
6,6	1,01	0,306	142
8,25	1,14	0,348	127
9,9	1,27	0,386	116
11,55	1,39	0,423	107
13,2	1,5	0,457	100
14,85	1,61	0,490	94
16,5	1,71	0,522	90
18,15	1,81	0,552	85
19,8	1,91	0,582	82
21,45	2,0	0,611	79
23,1	2,1	0,639	76
24,75	2,19	0,666	73
26,4	2,27	0,693	71
28,05	2,36	0,720	69
29,7	2,45	0,746	67
31,35	2,53	0,771	65
33,0	2,61	0,796	63

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.