Data Sheet



Flexible RF cable

RG_316_/U Item: 22510079

Description

RG: RG type RF cables

RG316, 50 Ohm, 3 GHz, 200°C, ø2.5 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper+Silver plated	Strand-07	0.54 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.55 mm
Outer conductor	Copper, Silver plated	Braid, 95%	2 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	2.5 mm +/- 0.1

Print: HUBER+SUHNER RG 316 U 50 Ohm (production order number)

Electrical Data

Impedance50 Ω +/- 2Operating Frequency3 GHzCapacitance97 pF/mVelocity of signal propagation69 %Signal delay4.86 ns/mScreening effectiveness≥ 38 dB (up to the content of th

Screening effectiveness \geq 38 dB (up to 1 GHz)
Operating voltage \leq 1.5 kV_{rms} (at sea level)
Test voltage 3 kV_{rms} (50 Hz/1 min)

Mechanical Data

 Weight
 1.6 kg/100 m

 Min. bending radius
 15 mm

 25 mm
 25 mm

 dynamic
 37.5 mm

Environmental Data

Temperature range -65 °C ... +200 °C
Installation temperature -20 °C... +60 °C
Flame propagation test IEC 60332-3,
Halogen free No
2011/65/EU (RoHS - including
2015/863 and 2017/2102)
1907/2006/EC (REACH) compliant

Additional Information

MIL reference: M17/113-RG316

Remarks

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

Suitable Connectors

Cable group U2 2 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 = 0.7727 b = 0.0972 f_{max} = 3 P at 1GHz = 135

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
0,15	0,31	0,096	349
0,3	0,45	0,138	246
0,45	0,56	0,171	201
0,6	0,66	0,200	174
0,75	0,74	0,226	156
0,9	0,82	0,250	142
1,05	0,89	0,272	132
1,2	0,96	0,294	123
1,35	1,03	0,314	116
1,5	1,09	0,333	110
1,65	1,15	0,351	105
1,8	1,21	0,369	101
1,95	1,27	0,387	97
2,1	1,32	0,403	93
2,25	1,38	0,420	90
2,4	1,43	0,436	87
2,55	1,48	0,452	85
2,7	1,53	0,467	82
2,85	1,58	0,482	80
3,0	1,63	0,497	78

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