

Flexible RF cable

RG_393_/U Item: 22511430

Description

RG: RG type RF cables

RG393, 50 Ohm, 6 GHz, 200°C, ø9.9 mm, FEP jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Strand-07	2.46 mm
Dielectric	PFA (Perfluoroalkoxy)		7.25 mm
Outer conductor	Copper, Silver plated	Braid, 92%	8 mm
Outer conductor	Copper, Silver plated	Braid, 94 %	8.75 mm
Jacket	FEP (Fluorinated ethylene propylene)	RAL 8015 - br	9.9 mm +/- 0.25

Print: HUBER+SUHNER RG 393 U 50 Ohm (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	6 GHz
Capacitance	95.9 pF/m
Velocity of signal propagation	70 %
Signal delay	4.79 ns/m
Screening effectiveness	≥ 81 dB (up to 6 GHz)
Operating voltage	≤ 5.5 kV _{rms} (at sea level)
Test voltage	12.5 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	22.9 kg/100 m
Min. bending radius	static
	60 mm
	100 mm
	dynamic
	150 mm

Environmental Data

Temperature range	-65 °C ... +200 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-3-25,
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

MIL reference: M17/127-RG393

Remarks

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

Suitable Connectors

Cable group	U33 7 mm / 50 Ohm
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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.1749

b = 0.129

 $f_{\max} = 6$

P at 1GHz = 1461

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
0,3	0,13	0,041	2667
0,6	0,21	0,065	1886
0,9	0,28	0,086	1540
1,2	0,35	0,106	1334
1,5	0,41	0,124	1193
1,8	0,47	0,142	1089
2,1	0,52	0,160	1008
2,4	0,58	0,177	943
2,7	0,64	0,194	889
3,0	0,69	0,210	844
3,3	0,74	0,227	804
3,6	0,8	0,243	770
3,9	0,85	0,259	740
4,2	0,9	0,274	713
4,5	0,95	0,290	689
4,8	1,0	0,306	667
5,1	1,05	0,321	647
5,4	1,1	0,336	629
5,7	1,15	0,351	612
6,0	1,2	0,366	596