

Flexible RF cable RG_58_C/U-62

Description

RG: RG type RF cables

RG58, 50 Ohm, 1 GHz, 85°C, Ø4.95 mm, PVC jacket, UL AWM style 1354



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-19	0.9 mm
Dielectric	PE (Polyethylene)		2.95 mm
Outer conductor	Copper, Tin plated	Braid, 96%	3.6 mm
Jacket	PVC (Polyvinyl chloride)	RAL 9005 - bk	4.95 mm

Print: HUBER+SUHNER RG 58 C/U-62 50 Ohm (UL logo) AWM Style 1354 (production order number)

Electrical Data

Impedance	50 Ω +/- 2
Operating Frequency	1 GHz
Capacitance	100.7 pF/m
Velocity of signal propagation	66.3 %
Signal delay	5.03 ns/m
Screening effectiveness	≥ 35 dB (up to 1 GHz)
Operating voltage	≤ 2.5 kV _{rms} (at sea level)
Test voltage	5 kV _{rms} (50 Hz/1 min)
Voltage Rating UL	30 V

Mechanical Data

Weight	3.7 kg/100 m
Min. bending radius	static
	25 mm
	50 mm

Environmental Data

Temperature range	-20 °C ... +85 °C
Temperature rating UL	60 °C
Flame propagation test	UL (horizontal flame test),
Halogen free	No
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

MIL reference: MIL reference: M17/183-00001 (former reference: M17/28-RG058)

Ordering Information

Order as RG_58_C/U-62

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Remarks

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

Suitable Connectors

Cable group

U7 3 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 = 0.3455

b = 0.2373

$f_{\max} = 1$

P at 1GHz = 110

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
0,05	0,09	0,027	492
0,1	0,13	0,041	348
0,15	0,17	0,052	284
0,2	0,2	0,062	246
0,25	0,23	0,071	220
0,3	0,26	0,079	201
0,35	0,29	0,088	186
0,4	0,31	0,096	174
0,45	0,34	0,103	164
0,5	0,36	0,111	156
0,55	0,39	0,118	148
0,6	0,41	0,125	142
0,65	0,43	0,132	136
0,7	0,46	0,139	131
0,75	0,48	0,145	127
0,8	0,5	0,152	123
0,85	0,52	0,159	119
0,9	0,54	0,165	116
0,95	0,56	0,171	113
1,0	0,58	0,178	110