

Coaxial Cable RG_58_C/U-62

Description

PE-50 Ohm - single screen (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 (PA no.)

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
Insulation resistance	$\geq 1 \times 10^8$ MQm
Min. screening effectiveness	≥ 35 dB (up to 1 GHz)
Max. 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
	repeated (for ≤ 50 bendings) 50 mm

Environmental Data

Temperature range	-20 °C... +85 °C
Temperature Rating UL	60 °C
Flammability	UL (horizontal flame test), ,
2011/95/EC (RoHS)	compliant

Additional Information

Ordering Information

Order as RG_58_C/U-62

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 (GHz)	Nom. attenuation (dB / m) sea level 25° C ambient temperature	Nom. attenuation (dB / ft) sea level 25° C ambient temperature	Max. CW power (watt) 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