

Flexible RF cable G_04263-03

Description

G: RF cables with PE dielectrics

RG59 LSFH, 75 Ohm, 1 GHz, 85°C, Ø6.1 mm, LSFH jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Steel, Copper plated	Wire	0.58 mm
Dielectric	PE (Polyethylene)		3.64 mm
Outer conductor	Copper	Braid, 93%	4.5 mm
Jacket	LSFH (modified polyethylene)	RAL 9005 - bk	6.1 mm +/- 0.15

Print: HUBER+SUHNER G 04263-03 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 1.5
Operating Frequency	1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.07 ns/m
Screening effectiveness	≥ 40 dB (up to 1 GHz)
Operating voltage	≤ 3 kV _{rms} (at sea level)
Test voltage	6 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight	5.2 kg/100 m
Min. bending radius	static 32 mm 65 mm

Environmental Data

Temperature range	-40 °C ... +85 °C
Installation temperature	-20 °C... +60 °C
Flame propagation test	IEC 60332-1,
Halogen test	IEC 60754
Halogen free	Yes
2011/65/EU (RoHS - including 2015/863 and 2017/2102)	compliant
1907/2006/EC (REACH)	compliant

Additional Information

Ordering Information

Order as G_04263-03

Remarks

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

Suitable Connectors

Cable group U16 4 mm / 75 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 = 0.3314

b = 0.0969

f_{max} = 1

P at 1GHz = 140

Frequency (GHz)	Nom. attenuation (dB / m)	Nom. attenuation (dB / ft)	Max. CW power (W)
	sea level 25° C ambient temperature	sea level 25° C ambient temperature	sea level 40° C ambient temperature
0,05	0,08	0,024	626
0,1	0,11	0,035	443
0,15	0,14	0,044	361
0,2	0,17	0,051	313
0,25	0,19	0,058	280
0,3	0,21	0,064	256
0,35	0,23	0,070	237
0,4	0,25	0,076	221
0,45	0,27	0,081	209
0,5	0,28	0,086	198
0,55	0,3	0,091	189
0,6	0,31	0,096	181
0,65	0,33	0,101	174
0,7	0,35	0,105	167
0,75	0,36	0,110	162
0,8	0,37	0,114	157
0,85	0,39	0,118	152
0,9	0,4	0,122	148
0,95	0,42	0,127	144
1,0	0,43	0,131	140

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