

Flexible RF cable

G_07273_D Item: 22510365

Description

G: RF cables with PE dielectrics

RG11D/RD11 alternative, 75 Ohm, 5 GHz, 85°C, \varnothing 10.8 mm, PE jacket



Technical Data

Construction

	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-07	1.2 mm
Dielectric	PE (Polyethylene)		7.25 mm
Outer conductor	Copper	Braid, 93%	8 mm
Outer Conductor	Copper	Braid, 94 %	8.7 mm
Jacket	PE (Polyethylene)		10.8 mm

Print: HUBER+SUHNER G 07273 D 75 Ohm (production order number)

Electrical Data

Impedance	75 Ω +/- 3
Operating Frequency	5 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Screening effectiveness	\geq 70 dB (up to 2 GHz)
Operating voltage	\leq 5 kV _{rms} (at sea level)
Test voltage	10 kV _{rms} (50 Hz/1 min)

Mechanical Data

Weight		15.7 kg/100 m
Min. bending radius	static	55 mm
		110 mm

Environmental Data

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

Additional Information

Remarks

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

Suitable Connectors

Cable group	U36 7 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 = 0.1881

b = 0.0344

$f_{\max} = 5$

P at 1GHz = 185

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 (W) sea level 40° C ambient temperature
0,25	0,1	0,031	370
0,5	0,15	0,046	262
0,75	0,19	0,058	214
1,0	0,22	0,068	185
1,25	0,25	0,077	165
1,5	0,28	0,086	151
1,75	0,31	0,094	140
2,0	0,33	0,102	131
2,25	0,36	0,110	123
2,5	0,38	0,117	117
2,75	0,41	0,124	112
3,0	0,43	0,131	107
3,25	0,45	0,137	103
3,5	0,47	0,144	99
3,75	0,49	0,150	96
4,0	0,51	0,157	93
4,25	0,53	0,163	90
4,5	0,55	0,169	87
4,75	0,57	0,175	85
5,0	0,59	0,181	83