

RG11D alternative, 75 Ohm, 5 GHz, 85°C, ø10.8 mm, PE jacket

G_07273_D

Properties

- Custom version of RG_11
- Suitable for use in applications up to 5 GHz
- 75 Ohm characteristic impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-07, 93%	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

Electrical data	
Impedance	75 Ω +/-3Ω
Operating frequency	≤ 5 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5 ns/m
Screening effectiveness	70 dB at frequency 2GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 5 kVrms
Test voltage (50 Hz/1 min)	≤ 10 kVrms

Mechanical data	
Weight	approx. 157 g/m
Static bending radius	≥ 55 mm
Repeated bending radius	110 mm

Environmental data	
Operation temperature	-40 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	free of halogenes

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Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22510365	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

Suitable connectors	
Cable group	U36

Ordering information		
Item number	Item description	Available as assembly only
22510365	G_07273_D	No

Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	0.1881	b coefficient typical =	0.0344
fmax =	5	P at 1 GHz =	185
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.10	0.063	0.019	585
0.20	0.091	0.028	414
0.30	0.113	0.035	338
0.40	0.133	0.040	293
0.60	0.166	0.051	239
0.80	0.196	0.060	207
1.00	0.222	0.068	185
1.20	0.247	0.075	169
1.40	0.271	0.083	156
1.60	0.293	0.089	146
1.80	0.314	0.096	138
2.00	0.335	0.102	131
2.50	0.383	0.117	117
3.00	0.429	0.131	107
3.50	0.472	0.144	99
4.00	0.514	0.157	92
4.50	0.554	0.169	87
5.00	0.593	0.181	83

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DOCUMENT PIM-PI059 / Date of publication: 22.07.2025 / uncontrolled copy