

RG11, 75 Ohm, 1 GHz, 85°C, Ø10.3 mm, PVC jacket

RG_11_A/U

Properties

- Mil standard RG cable
- Excellent RF performance for precision applications
- Suitable for use in application up to 1 GHz
- 75 Ohm characteristic Impedance



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Tin plated	Strand-07, 96%	1.2 mm - 0.15 mm
Dielectric	PE (Polyethylene)		7.25 mm
Outer conductor	Copper	Braid, 96%	8.1 mm
Jacket	PVC II (low migration)	RAL 9005 - bk	10.3 mm +/- 0.15 mm

Electrical data	
Impedance	75 Ω +/- 3Ω
Operating frequency	≤ 1 GHz
Capacitance	67 pF/m
Velocity of signal propagation	66 %
Signal delay	5.03 ns/m
Insulation resistance	100000000 MΩ*m
Inner conductor resistance	22.5 Ω/km
Operating Voltage (at sea level)	≤ 5 kVrms
Test voltage (50 Hz/1 min)	≤ 10 kVrms

Mechanical data	
Weight	approx. 133 g/m
Static bending radius	≥ 55 mm
Repeated bending radius	100 mm

Environmental data	
Operation temperature	-25 °C ... 85 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

RG11, 75 Ohm, 1 GHz, 85°C, ø10.3 mm, PVC jacket
RG_11_A/U

Suitable connectors	
Cable group	U34

Ordering information		
Item number	Item description	Available as assembly only
22510004	RG_11_A/U	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 =	1.0	P at 1 GHz =	286.0
Frequency	Nom. attenuation	Nom. attenuation	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
0.10	0.063	0.019	904
0.20	0.091	0.028	640
0.30	0.113	0.034	522
0.40	0.133	0.041	452
0.60	0.166	0.051	369
0.80	0.196	0.060	320
1.00	0.222	0.068	286

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/ EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
DOCUMENT PIM-P979 / Date of publication: 08.08.2024 / uncontrolled copy