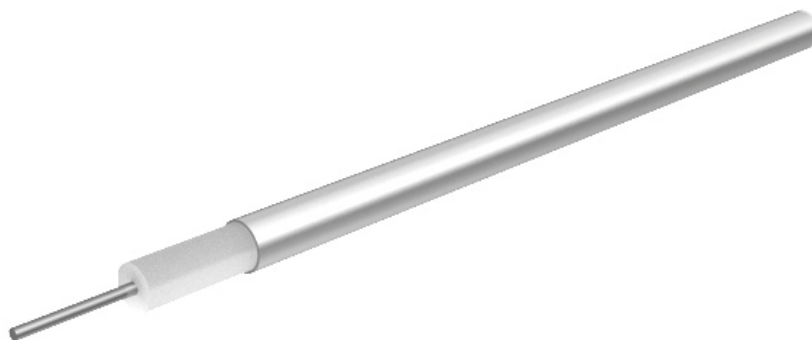


Semi-rigid (RG405) 50 Ohm, 40GHz, 125°C, Ø2.2 mm, no jacket

SR_86_CU_SP

Properties

- Formstable cable for precise, time saving installations
- Excellent RF screening performance
- Highly efficient RF signal distribution



Construction			
Component	Material	Detail	Diameter
Centre conductor	Copper, Silver plated	Wire	0.51mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.68mm
Outer conductor	Copper, Silver plated	Tube, 100%	2.2mm

Electrical data	
Impedance	50 Ω +/-1.5Ω
Operating frequency	≤ 40 GHz
Capacitance	105 pF
Inductance	0.2 µH/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	120 dB at frequency 0.1 GHz ... 20GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.5 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kV

Mechanical data	
Weight	approx. 23.8 g/m
Static bending radius	≥ 3.18 mm

Environmental data	
Operation temperature	-55 °C ... 125 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	contains halogene

HYPER-SHUNED

ES France - Département RF & Hyperfréquences
127 rue de Buzenval BP 26 - 92380 Garches



Tél. 01 47 95 99 60
Fax. 01 47 01 16 22



e-mail : hyper@es-france.com
Site Web : www.es-france.com

Semi-rigid (RG405) 50 Ohm, 40GHz, 125°C, Ø2.2 mm, no jacket

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Suitable connectors	
Cable group	Y3

Ordering information		
Item number	Item description	Available as assembly only
22810180	SR_86_CU_SP_COIL	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]			
a coefficient typical =	0.58454	b coefficient typical =	0.03967
fmax =	40.0	P at 1 GHz =	130.0
Frequency GHz	Nom. attenuation (dB/m)	Nom. attenuation Max. (dB/ft)	CW power (W)
	sea level 25°C ambient temperature	sea level 25°C ambient temperature	sea level 40°C ambient temperature
0.20	0.269	0.082	291
0.40	0.386	0.118	206
0.60	0.477	0.145	168
0.80	0.555	0.169	145
1.00	0.624	0.190	130
1.20	0.688	0.210	119
1.40	0.747	0.228	110
1.60	0.803	0.245	103
1.80	0.856	0.261	97
2.00	0.906	0.276	92
4.00	1.328	0.405	65
6.00	1.670	0.509	53
8.00	1.971	0.601	46
10.00	2.245	0.684	41
20.00	3.408	1.039	29
40.00	5.284	1.611	21

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