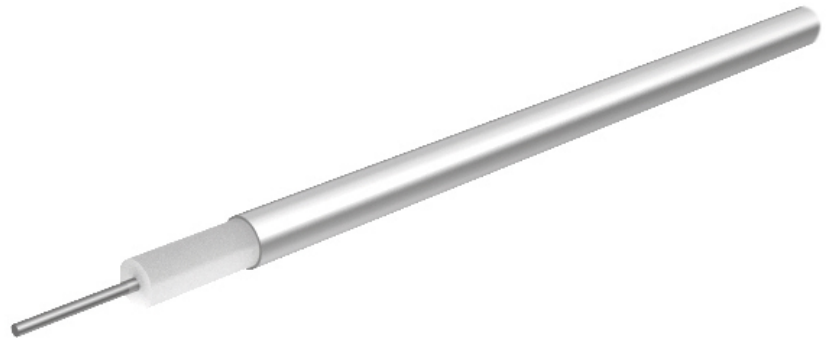


Semi-rigid (RG401) 50 Ohm, 18GHz, 100°C, ø6.35 mm, no jacket

SR_250_M17

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	1.63mm
Dielectric	PTFE (Polytetrafluoroethylene)		5.31mm
Outer conductor	Copper	Tube, 100%	6.35mm

Electrical data	
Impedance	50 Ω +/-0.5Ω
Operating frequency	≤ 18 GHz
Capacitance	97.1 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 ... 18GHz
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 3 kV
Test voltage (50 Hz/1 min)	≤ 7.5 kV

Mechanical data	
Weight	approx. 158 g/m
Static bending radius	≥ 9.52 mm

Environmental data	
Operation temperature	-55 °C ... 100°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

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Suitable connectors

Cable group	Y7
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Ordering information

Item number	Item description	Available as assembly only
22810701	SR_250_M17	No

Power MatrixCalculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

a coefficient typical =	0.1836	b coefficient typical =	0.03967
fmax =	18.0	P at 1 GHz =	1400.0
Frequency	Nom. attenuation	Nom. attenuation Max.	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
0.20	0.090	0.027	3130
0.40	0.132	0.040	2214
0.60	0.166	0.051	1807
0.80	0.196	0.060	1565
1.00	0.223	0.068	1400
1.20	0.249	0.076	1278
1.40	0.273	0.083	1183
1.60	0.296	0.090	1107
1.80	0.318	0.097	1043
2.00	0.339	0.103	990
4.00	0.526	0.160	700
6.00	0.688	0.210	572
8.00	0.837	0.255	495
10.00	0.977	0.298	443
18.00	1.493	0.455	330

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.
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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