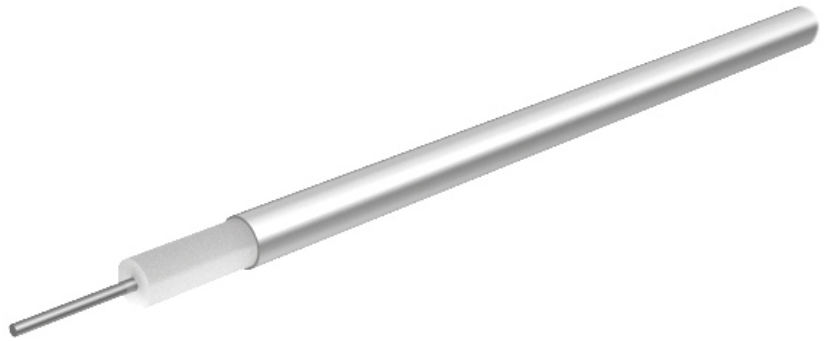


Semi-rigid, 50 Ohm, 18 GHz, 100°C, ø6.35 mm, Copper/Tin plated, M17

SR_250_TP_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	1.63 mm
Dielectric	PTFE (Polytetrafluoroethylene)		5.31 mm
Outer conductor	Copper, Tin plated	Tube, 100%	6.35 mm

Electrical data	
Impedance	50 Ω +/-0.5Ω
Operating frequency	≤ 18 GHz
Capacitance	97.1 pF/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 kVrms
Test voltage (50 Hz/1 min)	≤ 7.5 kVrms

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

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SR_250_TP_M17

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22820705	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
22830705	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
22810705	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	

Suitable connectors	
Cable group	Y7

Ordering information		
Item number	Item description	Available as assembly only
22820705	SR_250_TP_M17_2M	No
22830705	SR_250_TP_M17_3M	No
22810705	SR_250_TP_M17_COIL	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 =	0.1836	b coefficient typical =	0.03967
fmax =	18.0	P at 1 GHz =	1400.0
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
0.20	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

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