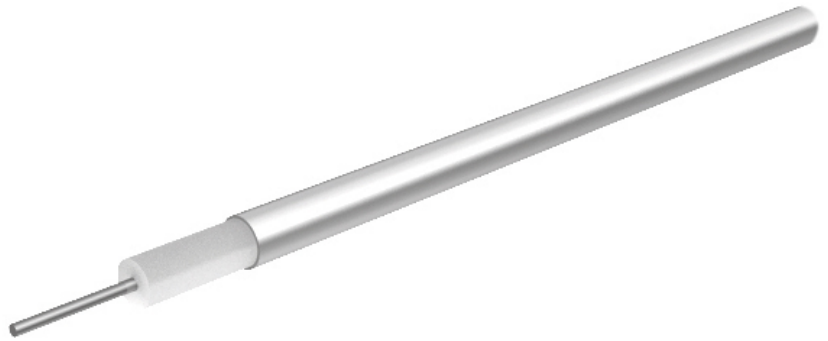


Semi-rigid, 50 Ohm, 40 GHz, 125°C, Ø2.2 mm, Copper/Tin plated, M17

SR_86_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	Steel, Copper + Silver plated	Wire	0.51 mm
Dielectric	PTFE (Polytetrafluoroethylene)		1.68 mm
Outer conductor	Copper, Tin plated	Tube, 100%	2.2 mm

Electrical data	
Impedance	50 Ω +/-1.5Ω
Operating frequency	≤ 40 GHz
Capacitance	105 pF/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
Noise level	10 mV

Mechanical data	
Weight	approx. 23.5 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

Semi-rigid, 50 Ohm, 40 GHz, 125°C, Ø2.2 mm, Copper/Tin plated, M17

SR_86_TP_M17

Compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
22820175	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
22830175	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	
22810175	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Compliant	

Suitable connectors	
Cable group	Y3

Ordering information		
Item number	Item description	Available as assembly only
22820175	SR_86_TP_M17_2M	
22830175	SR_86_TP_M17_3M	No
22810175	SR_86_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 =	0.58454	b coefficient typical =	0.03967
fmax =	40.0	P at 1 GHz =	130.0
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	0.269	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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