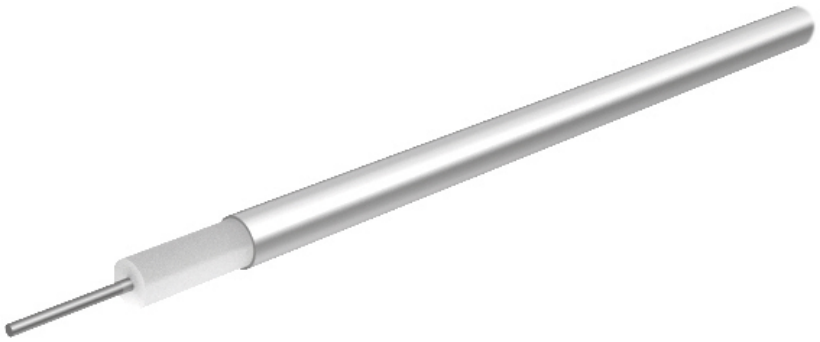
DATA SHEET

Semi-rigid, 50 Ohm, 33 GHz, 125°C, ø3.58 mm, Copper, M17

SR_141_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	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.99 mm
Outer conductor	Copper	Tube, 100%	3.58 mm

Electrical data	
Impedance	50 Ω +/-1Ω
Operating frequency	≤ 33 GHz
Capacitance	98.1 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)	≤ 1.9 kVrms
Test voltage (50 Hz/1 min)	≤ 5 kVrms

Mechanical data	
Weight	approx. 51.2 g/m
Static bending radius	≥ 6.35 mm

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

Suitable connectors	
Cable group	Y5

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Power Matrix			
Calculation: typical Attenuation [formula: (a*f^0.5 + b*f)] and maximum Power CW [formula: (p/f^0.5)]			
a coefficient typical =	**0.32544**	b coefficient typical =	**0.03967**
fmax =	**33.0**	P at 1 GHz =	**450.0**
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
0.20	0.153	0.047	1006
0.40	0.222	0.068	712
0.60	0.276	0.084	581
0.80	0.323	0.098	503
1.00	0.365	0.111	450
1.20	0.404	0.123	411
1.40	0.441	0.134	380
1.60	0.475	0.145	356
1.80	0.508	0.155	335
2.00	0.540	0.165	318
4.00	0.810	0.247	225
6.00	1.035	0.315	184
8.00	1.238	0.377	159
10.00	1.426	0.435	142
20.00	2.249	0.685	101
33.00	3.179	0.969	78

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