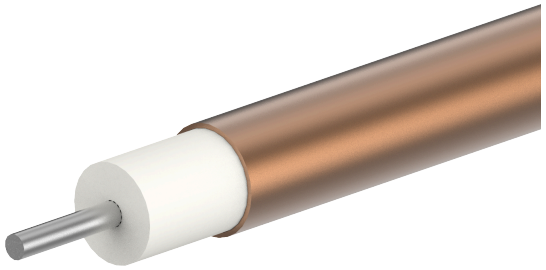
DATA SHEET

Semi-rigid, 50 Ohm, 60 GHz, 125°C, ø2.2 mm, IC: SPC, OC: Copper, M17

SR_86_CU_100

Properties

- Formstable cable for precise, time saving installations
- Excellent RF screening performance
- Highly efficient RF signal distribution
- MIL-DTL-17 qualification testing successfully completed



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

Electrical data	
Impedance	50 Ω +/-1.5Ω
Operating frequency	≤ 60 GHz
Capacitance	105 pF/m
Velocity of signal propagation	69.5 %
Signal delay	4.8 ns/m
Screening effectiveness	120dB
Insulation resistance	100000000 MΩ*m
Operating Voltage (at sea level)	≤ 1.5 kVrms

Mechanical data	
Weight	approx. 22.8 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

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Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85289533	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	
85213363	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	

Suitable connectors	
Cable group	Y3

Ordering information		
Item number	Item description	Available as assembly only
85289533	SR_86_CU_100_1.5M	No
85213363	SR_86_CU_100_3M	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 =	**60**	P at 1 GHz =	**130**
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	0.269	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	1.610	21
60.00	6.908	2.106	17

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