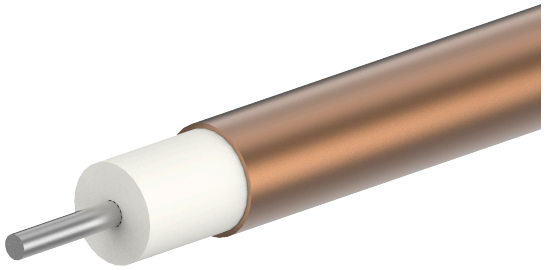
DATA SHEET

Semi-rigid, 50 Ohm, 107 GHz, 100°C, ø1.19 mm, IC: SPC, OC:Copper, M17

SR_47_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	0.29 mm
Dielectric	PTFE (Polytetrafluoroethylene)		0.93 mm
Outer conductor	Copper	Tube, 100%	1.19 mm

Electrical data	
Impedance	50 Ω +/-2.5Ω
Operating frequency	≤ 107 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 kVrms

Mechanical data	
Weight	approx. 7.1 g/m
Static bending radius	≥ 3.18 mm

Environmental data	
Operation temperature	-55 °C ... 100 °C
Installation temperature	-20 °C ... 60 °C
Fire characteristics	contains halogene

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SR_47_CU_100

Material compliance			
Item number	Directive / Regulation	Rating	Exemptions / Details
85289529	RoHS 2011/65/EU and (EU) 2015/863	Compliant without exemption	
	REACH 1907/2006 Article 33 SVHC	Free of SVHC >0,1%	
85264280	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	Y15

Ordering information		
Item number	Item description	Available as assembly only
85289529	SR_47_CU_100_1.5M	No
85264280	SR_47_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 =	**1.04044**	b coefficient typical =	**0.03967**
fmax =	**107**	P at 1 GHz =	**32**
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	0.473	0.144	72
0.40	0.674	0.205	51
0.60	0.830	0.253	41
0.80	0.962	0.293	36
1.00	1.080	0.329	32
1.20	1.187	0.362	29
1.40	1.287	0.392	27
1.60	1.380	0.420	25
1.80	1.467	0.447	24
2.00	1.551	0.473	23
4.00	2.240	0.683	16
6.00	2.787	0.849	13
8.00	3.260	0.994	11
10.00	3.687	1.124	10
20.00	5.446	1.660	7
40.00	8.167	2.489	5
60.00	10.439	3.182	4
80.00	12.480	3.804	4
100.00	14.371	4.380	3
107.00	15.007	4.574	3

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