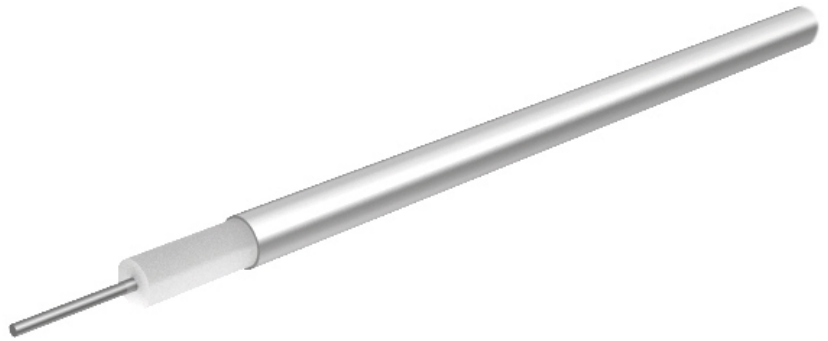


Semi-rigid, 50 Ohm, 33 GHz, 125°C, ø3.58 mm, Low-loss, Copper/Tin plated, M17

SR_141_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	0.92 mm
Dielectric	PTFE (Polytetrafluoroethylene)		2.99 mm
Outer conductor	Copper, Tin plated	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. 52.1 g/m
Static bending radius	6.35 mm

Environmental data	
Operation temperature	-40 °C ... 125 °C
Installation temperature	-20 °C ... 60°C
Fire characteristics	contains halogene

Suitable connectors	
Cable group	Y5

Semi-rigid, 50 Ohm, 33 GHz, 125°C, Ø3.58 mm, Low-loss, Copper/Tin plated, M17
 SR_141_TP_M17

Ordering information		
Item number	Item description	Available as assembly only
22820043	SR_141_TP_M17_2M	No
22830043	SR_141_TP_M17_3M	No
85174633	SR_141_TP_M17_3M-01	No
22810043	SR_141_TP_M17_COIL	No

Power Matrix			
Calculation: typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] 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

HUBER+SUHNER is certified by ISO 9001, ISO 14001, ISO 45001, IATF 16949, AS/EN 9100 and ISO/TS 22163-IRIS. Waiver: Facts and figures herein are for information only and do not represent any warranty of any kind.
 DOCUMENT PIM-P31281 / Date of publication: 14.03.2024 / uncontrolled copy