

CAC Technology® Data Sheet

RF Coaxial Cable P/N: 81L1_PE

Description

81L1_PE

the double shield flexible coaxial cable, extra-low loss RF cable.



Construction

Inner Conductor :	① Bare Copper	2.74mm±0.02
Dielectric:	② Foamed PE with skin	7.24mm±0.12
Shield :	③ Bonded aluminum foil 100% coverage	9.39±0.13
Braiding:	④ Tinned copper wire Braid	8.13±0.15
Jacket :	⑤ FR-PE, Black	10.24mm±0.18

Electrical Data

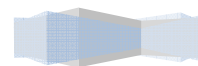
Impedance	50 ohm
Max. operating frequency	5.80 GHz
Velocity of signal propagation	85%
Shielding effectiveness	> 90 dB (@1 GHz)
Max. operating voltage	2500V

Mechanical Data

Weight	118g/ m
Min. bending radius	40 mm

Environmental Data

Temperature range	-45 °C ~ + 85 °C
2011/65/EU (RoHS)	compliant



Attenuation & CW Power

Frequency	Attenuation	Attenuation	CW Power
MHz	dB/100m	dB/100ft	W
100	4.48	1.37	1604.11
300	7.86	2.40	914.04
500	10.24	3.12	701.70
700	12.21	3.72	588.78
1000	14.72	4.49	488.18
1300	16.92	5.16	424.89
1600	18.90	5.76	380.40
1900	20.72	6.31	346.94
2200	22.42	6.83	320.61
2500	24.03	7.32	299.19
2800	25.55	7.79	281.32
3100	27.01	8.23	266.13
3400	28.41	8.66	253.01
3700	29.76	9.07	241.52
4000	31.07	9.47	231.36
4300	32.34	9.86	222.29
4600	33.57	10.23	214.13
4900	34.77	10.60	206.74
5200	35.94	10.95	200.00
5500	37.09	11.30	193.82
5800	38.21	11.65	188.13

Version	Drawn/date	Check/date
01	Jinyuan 2012.10.18	wangzhen 2012.10.19

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