

RG142DS

High performance 50ohm flexible coaxial cable

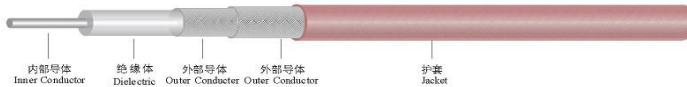
Ver A/0 Release Date Match, 2018



P/N: 3142

Features&Benefits

- 70%Vp PTFE+ Double TPC Wire Braiding
- Low loss, Flexible, Low Cost
- Equivalent to RG142
- Replace to ENVIROFLEX-142



Construction Specification

	Description	Size (mm)	Tol.	Materials
1	Center conductor	0.94	±0.01	Silver Plated Copper
2	Dielectric	2.98	±0.05	Extruded PTFE
3	Outer conductor	3.45	±0.05	Silver Plated Copper Shield
4	Outer conductor	3.95	±0.05	Silver Plated Copper Shield
5	Jacket	4.95	±0.15	Fluorinated Ethylene Propylene(FEP) Brown or Transparent Color

Mechanical&Environmental Specifications

RoHS

Bend Radius:installation (mm)	25	RoHS	Compliant
Bend Radius:repeated (mm)	50		
Weight (g/m)	65 max.		
Temp, Operating&Installation (°C)	-55~200(FEP)		
Temp, Storage (°C)	-55~200(FEP)		

Electrical Specifications

Characteristic Impedance(ohm)	50±2	Time delay	4.7
Capacitance(pF/m)	98	Max Working Power(Vrms)	2000
Velocity ratio(%)	70	VSWR(DC~12.4GHz)	≤1.20
Cutoff frequency(GHz)	31	Shielding Effect(dB @1GHz)	>70

Attenuation (Typical@25°C&VSWR=1.0) &Power (VSWR=1.0;40°C;Sea Level)

Frequency MHz	100	400	900	1000	1800	2400	3000	5000	6000	10000	15000	18000
dB/100 m	13.0	27.0	43.0	46.0	63.0	72.0	82.0	107.0	118.0	194.0	230.0	265.0
Avg.Power kW	2.350	1.050	0.640	0.600	0.430	0.350	0.310	0.250	0.220	0.170	0.140	0.128

Maximum attenuation is 10% higher.

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