

RF100A Jumper Cable

7805 Coax – RG-174 Type

Data Sheet

P/N: RF100A - 7805



Description:

RG-174 type, 25 AWG solid .018" bare copper conductor, solid polyethylene insulation, polyester tape + tinned copper braid shield (90% coverage), PVC jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax 1
 Total Number of Conductors 1
 RG Type 174/U
 Series Type RF 100
 AWG 25
 Stranding Solid
 Conductor Diameter .018 in.
 Conductor Material BC – Bare Copper

INSULATIONS:

Insulation Material PE – Polyethylene
 Insulation Diameter .061 in.

OUTER SHIELD:

Outer Shield Type Tape/Braid

Outer Shield Material:

Layer Number	Type	Material	Coverage (%)
1	Tape	Aluminum Foil- Polyester Tape	100
2	Braid	TC - Tinned Copper	90

Outer Shield % Coverage 100%

OUTER JACKET:

Outer Jacket Material PVC – Polyvinyl Chloride

OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter .110 in.

MECHANICAL DIAMETER:

Operating Temperature Range -40°C To +75°C
 Non-UL Temperature Rating 80°C
 Bulk Cable Weight 9 lbs/1000 ft.
 Max. Recommended Pulling Tension 16 lbs.
 Min. Bend Radius (Install) 0.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY:

COMPLIANCE:

APPLICABLE STANDARDS:

EU CE Mark (Y/N) No
 EU RoHS Compliant (Y/N) Yes
 EU RoHS Compliance Date (mm/dd/yyyy): 01-01-04

SUITABILITY:

Suitability - Outdoor Yes
 Suitability - Aerial Yes - When supported by a messenger
 Suggested Connectors Mates with standard RG-174 connectors.

PLENUM/NON-

PLENUM:

Plenum (Y/N) N

ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance 50 Ohms
 Nom. Inductance .077 μ H/ft
 Nom. Capacitance Conductor to Shield 31.2 pF/ft
 Nominal Velocity of Propagation 66%
 Nominal Delay 1.54 ns/ft
 Nom. Conductor DC Resistance @ 20 Deg. C 32.0 Ohms/1000 ft
 Nominal Outer Shield DC Resistance @ 20°C 9.1 Ohms/1000 ft

Maximum VSWR:

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Maximum VSWR
		5	6000	1.25:1

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	30			3.8
	50			4.9
	150			8.6
	220			10.4
	450			15.2
	900			22
	1500			28.7
	1800			31.7
	2000			33.4
	2500			37.8
	3000			42
	3500			45.4
	4500			52.3
	5800			60.9
	6000			62

Nom. Power Rating :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Power Rating (W)
		30		216
		50		154
		150		74
		220		57
		450		34
		900		21
		1500		14
		1800		13
		2000		12
		2500		10
		3000		9
		3500		8
		4500		7
		5800		5
		6000		5

Max. Operating Voltage - Non-UL

300 V RMS

NOTES:

Notes

100% Sweep tested. 6 GHz. Max.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color
7805 010100^	RF100 WIRELESS 50 OHM COAX PVC	100	1.8	BLACK
7805 0101000	RF100 WIRELESS 50 OHM COAX PVC	1000	10	BLACK
7805 010500	RF100 WIRELESS 500 50 OHM COAX PVC		5.5	BLACK

^ MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

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