Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7805 Coax - RG-174 Type

For more Information please call

1-800-Belden1



General Description:

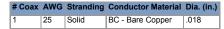
RG-174 type, 25 AWG solid .018" bare copper conductor, solid polyethylene insulation, Beldfoil® + tinned copper braid shield (90% coverage), PVC jacket.

1

Physical Characteristics (Overall)

Conductor

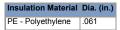
AWG:



Total Number of Conductors:

Insulation

Insulation Material:



Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Jacket

Outer Jacket Material:

Outer Jacket Material PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.110 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C	
Non-UL Temperature Rating:	80°C	
Bulk Cable Weight:	9 lbs/1000 ft.	
Max. Recommended Pulling Tension:	16 lbs.	
Min. Bend Radius/Minor Axis:	1.250 in.	

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	No
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	174/U
Series Type:	RF 100

Suitability

Plenum/Non-Plenum

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	Plenum (1	Y/N):	
Ele	ectrical C	haracteristics	(Overa
		eristic Impedance	
	Impedance	(Ohm)	
	50		
No	m. Inductan	ice:	
	Inductance	(µH/ft)	
	.077		
No	m. Capacita	nce Conductor to	Shield:
	Capacitanc	e (pF/ft)	
	31.2		
No	minal Veloc	ity of Propagation	n:
	VP (%)		
	66		
No	minal Delay	<i>r</i> :	
	Delay (ns/ft	t)	
	1.54	7	
No	m. Conduct	 or DC Resistance	:
	DCR @ 20°	C (Ohm/1000 ft)	
	32.0		
No	minal Outer	Shield DC Resis	ance:
		C (Ohm/1000 ft)	
	9.1		
Ma	ximum VSW	VR:	
		Freq. (MHz) Sta	rt Freg. (MI
		5	
No	m. Attenuat	tion:	
		Attenuation (dB	100 ft.)
	5.000	1.500	
	10.000	2.200	
	30.000	3.800	
	50.000	4.900	
	150.000	8.600	
	220.000	10.400	
	450.000	15.200	
	900.000	22.000	
	1500.000	28.700	
	1800.000	31.700	
	2000.000	33.400	
	2500.000	37.800	
	3000.000	42.000	
	3500.000	45.400	
	4500.000	52.300	
	5800.000	60.900 62.000	
	6000 000		
- 1	6000.000		
No	m. Power R	ating:	
No	m. Power R	ating: (MHz) Rating (W)	
No	m. Power Ra	ating: (MHz) Rating (W)	
No	m. Power Ra Start Freq. 30	ating: (MHz) Rating (W) 216	
No	m. Power Rastart Freq. 130 50 150	ating: (MHz) Rating (W) 216 154 74	
No	m. Power Ro Start Freq. 1 30 50 150 220	ating: (MHz) Rating (W) 216 154 74 57	
No	m. Power Ri Start Freq. 30 50 150 220 450	ating: (MHz) Rating (W) 216 154 74 57 34	
No	m. Power R: Start Freq. 30 50 150 220 450 900	ating: (MHz) Rating (W) 216 154 74 57 34 21	
No	m. Power R: Start Freq. 30 50 150 220 450 900 1500	ating: (MHz) Rating (W) 216 154 74 57 34 21 14	
No	m. Power Ri Start Freq. 30 50 150 220 450 900 1500 1800	ating: (MHz) Rating (W) 216 154 74 57 34 21 14	
No	m. Power R: Start Freq. 30 50 150 220 450 900 1500	ating: (MHz) Rating (W) 216 154 74 57 34 21 14	

Max. Operating Voltage - Non-UL:

9

8

3000

3500

4500 5800 6000

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Notes (Overall)

Notes: 100% Sweep tested. 6 GHz. Max. Belden® The Wire in Wireless®.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7805 010100	100 FT	1.700 LB	BLACK	E	RF100 WIRELESS 50 OHM COAX PVC
7805 0101000	1,000 FT	10.000 LB	BLACK		RF100 WIRELESS 50 OHM COAX PVC
7805 010500	500 FT	5.500 LB	BLACK		RF100 WIRELESS 50 OHM COAX PVC

Notes:

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

Revision Number: 3 Revision Date: 07-19-2013

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