Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

7808R Coax - RG-8X Type



For more Information please call

1-800-Belden1



General Description:

RG-8X type, 15 AWG solid .057" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall) Conductor AWG:				
# Coax AWG Stranding Conductor Material Dia. (in.) 1 15 Solid BC - Bare Copper .057 Total Number of Conductors: 1				
1 15 Solid BC - Bare Copper .057 Total Number of Conductors: 1 Insulation Insulation Material: Insulation Material Dia. (n.) Gas-injected FHDPE - Foam High Density Polyethylene 150 Outer Shield Outer Shield Material: Import Polyethylene 150 Outer Shield Material: Coverage (%) 1 Bonded Duofoil® Tape Bonded Duofoil® Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 2 Braid TC - Tinned Copper 95 Outer Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: 0.240 in. Verall Cable 0.240 in. 0.240 in.				
Total Number of Conductors: 1 Insulation Insulation Material: Insulation Material: Insulation Material: Outer Shield Gas-injected FHDPE - Foam High Density Polyethylene 150 Outer Shield Material: Valuer Shield Material: Image: Shield Duofoil® Tape Bonded Duofoil® Tape Braid Tot. Tinned Copper 95 95 Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: 0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/0/				
Insulation Insulation Material: Insulation Material: Cas-injected FHDPE - Foam High Density Polyethylene 150 Outer Shield Material: Duter Shield Trade Name Type Outer Shield Material Coverage (%) 1 Bonded Duofoil® Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Outer Jacket Outer Jacket Material: Outer Jacket Mate				
Insulation Material: Insulation Material Gas-injected FHDPE - Foam High Density Polyethylee 150 Outer Shield Material: Cover Shield Material: Layer # Outer Shield Material: Layer # Outer Shield Material: Layer # Outer Shield Material: Layer # Outer Shield Material: Coverage (%) 1 Bonded Duofoil® Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Outer Jacket Outer Jacket Material: PVC - Polyvinyl Chloride Overall Cable Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) Operating Temperature Range: -40°C To +75°C				
Cas-injected FHDPE - Foam High Density Polyethylene 150 Outer Shield Outer Shield Material: Layer # Outer Shield Trade Name Type Outer Shield Material: 1 Bonded Duofol® Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: PVC - Polyvingl Chloride Overall Cable Overall Nominal Diameter: 0.240 in. Alexet Anteriat: Alexet Materiat: Alexet Anterial: Overall Cable Overall Characteristics (Overall) Operating Temperature Range: -40°C To +75°C				
Outer Shield Outer Shield Material: Layer # Outer Shield Trade Name Type 0 Bonded Duofoil® 1 Bonded Duofoil® 2 Braid TC - Tinned Copper 95 Outer Jacket Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride Overall Cable 0.240 in. Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) -40°C To +75°C				
Outer Shield Material: Layer # Outer Shield Trade Name Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Outer Jacket Material: Outer Jacket Material: PVC - Polyvinyl Chloride Overall Nominal Diameter: 0.240 in. Operating Temperature Range: -40°C To +75°C				
1 Bonded Duofoil® Tape Bonded Aluminum Foil-Polyester Tape-Aluminum Foil 100 2 Braid TC - Tinned Copper 95 Outer Jacket Material PVC - Polyvinyl Chloride Overall Cable Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) Operating Temperature Range:				
2 Braid TC - Tinned Copper 95 Outer Jacket Outer Jacket Material: 95 Outer Jacket Material: 0uter Jacket Material: PVC - Polyvinyl Chloride 0.240 in. Overall Cable 0.240 in. Mechanical Characteristics (Overall) -40°C To +75°C				
Outer Jacket Outer Jacket Material: Outer Jacket Material PVC - Polyvinyl Chloride Overall Cable Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) Operating Temperature Range: -40°C To +75°C				
Outer Jacket Material: Outer Jacket Material PVC - Polyvinyl Chloride Overall Cable Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) Operating Temperature Range: -40°C To +75°C				
Outer Jacket Material PVC - Polyvinyl Chloride Overall Cable 0.240 in. Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) -40°C To +75°C				
PVC - Polyvinyl Chloride Overall Cable Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) Operating Temperature Range: -40°C To +75°C				
Overall Nominal Diameter: 0.240 in. Mechanical Characteristics (Overall) -40°C To +75°C				
Mechanical Characteristics (Overall) Operating Temperature Range: -40°C To +75°C				
Operating Temperature Range: -40°C To +75°C				
Operating Temperature Range: -40°C To +75°C				
Bulk Cable Weight: 40 lbs/1000 ft.				
Max. Recommended Pulling Tension: 74 lbs.				
Min. Bend Radius/Minor Axis: 2.500 in.				
Applicable Specifications and Agency Compliance (Overall)				
Applicable Opecifications and Agency compliance (overall) Applicable Standards & Environmental Programs				
NEC/(UL) Specification: CMR				
CEC/C(UL) Specification: CMG				
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				
EU Directive 2003/11/EC (BFR): Yes				

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

1500.000205.0001800.000187.000



7808R Coax - RG-8X Type

me Test	
UL Flame	Test:
CSA Flam	e Test:
uitability	
Suitability	
lenum/Non-	
Plenum (Y	/N):
	haracteristics (O
om. Characte	ristic Impedance: (Ohm)
50	
om. Inductano	ce:
Inductance	(µH/ft)
	nce Conductor to Shie
Capacitance	
23.0	
	ity of Propagation:
VP (%)	
86	
ominal Delay: Delay (ns/ft)	
1.18	1
om. Conducto	⊐ or DC Resistance:
	C (Ohm/1000 ft)
3.2	
	Shield DC Resis
	C (Ohm/1000 ft)
2.8	
aximum VSW	
Description	Freq. (MHz) Sta
om. Attenuati	
	Attenuation (dl
5.000	0.580
10.000	0.770
30.000 50.000	1.300
150.000	2.800
220.000	3.400
450.000	4.900
900.000 1500.000	7.000 9.100
1800.000	10.100
2000.000	10.700
2500.000	12.000
3000.000	13.400
3500.000 4500.000	14.600
5800.000	19.500
6000.000	19.800
ax. Power Rat	
Freq. (MHz)	
30.000	1526.000
50.000	1186.000
	673.000
220.000 450.000	556.000 382.000
900.000	268.000
	205.000

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



7808R Coax - RG-8X Type

2000.000	177.000
2500.000	156.000
3000.000	143.000
3500.000	132.000
4500.000	116.000
5800.000	102.000
6000.000	100.000

Max. Operating Voltage - UL:

Voltage

300 V RMS

Sweep Test

Sweep Testing:

100% Sweep tested to 6 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Belden® The Wire in Wireless®

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7808R 0101000	1,000 FT	44.000 LB	BLACK	С	RF240 WIRELESS 500HM COAXFRPVC
7808R 010500	500 FT	21.500 LB	BLACK	С	RF240 WIRELESS 500HM COAXFRPVC

Notes: C = CRATE REEL PUT-UP.

Revision Number: 7 Revision Date: 01-06-2014

© 2016 Belden, Inc All Rights Reserved

All Rights Reserved. Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information and belief at the date of its publication. The information provided in this Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided of the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.