Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8218 Coax - 75 Ohm Miniature Coax

For more Information please call

1-800-Belden1



General Description:

27 AWG stranded (7x35) .017" bare copper-covered steel conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	27	7x35	BCCS - Bare Copper Covered Steel	0.4318

Total Number of Conductors:

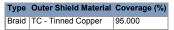
Insulation

Insulation Material:



Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 3.810 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 1354)
Bulk Cable Weight:	20.835 Kg/Km
Max. Recommended Pulling Tension:	142.342 N
Min. Bend Radius/Minor Axis:	38.100 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

AWM Specification:	UL Style 1354 (30 V 60°C)		
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		
Plenum/Non-Plenum			
Plenum (Y/N):	No		

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Page 1 of 2 11-05-2015

Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



8218 Coax - 75 Ohm Miniature Coax

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.377315

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 67.2605

Nominal Velocity of Propagation:



Nominal Delay:

Delay (ns/m) 5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 393.72

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 18.7017

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1	3.9372
10	7.8744
50	13.7802
100	18.7017
200	27.2323
400	39.7001
700	54.1365
900	62.339
1000	65.62

Max. Operating Voltage - UL:

30 V RMS (UL AWM Style 1354)

Max. Operating Voltage - Non-UL:

1700 V RMS

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8218 010U1000	1,000 FT	16.000 LB	BLACK		75 OHM COAX
8218 010U500	500 FT	8.500 LB	BLACK		75 OHM COAX
8218 0101000	1,000 FT	16.000 LB	BLACK	С	75 OHM COAX
8218 010500	500 FT	8.000 LB	BLACK		75 OHM COAX

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-25-2012

© 2015 Belden, Inc 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 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 in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product

Page 2 of 2 11-05-2015