Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

7915A Coax - Series 6

For more Information please call

1-800-Belden1

General Description:

18 AWG solid .040" bare copper conductor, gas-injected foam polyethylene insulation, Duobond® + aluminum braid shield (77% coverage), PVC jacket.

Usage (Overall)

Suitable Applications:	HDTV, DBS, Broadband CATV, Cable Modem

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	18	Solid	BC - Bare Copper	.040

Total Number of Conductors:	1

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FPE - Foam Polyethylene	.180

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	AL - Aluminum	77
3		Tape	Bonded Aluminum Foil-Polyester Tape w/Shorting Fold	100

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter:	0.275 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	32 lbs/1000 ft.
Max. Recommended Pulling Tension:	91 lbs.
Min. Bend Radius/Minor Axis:	2.750 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CATV, CM
CEC/C(UL) Specification:	CM
EU Directive 2011/65/EU (ROHS II):	Yes

EU CE Mark:	Yes
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
Series Type:	Series 6

Flame Test

UL Flame Test:	UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75.000

Nom. Inductance:

Inductance (µH/ft)
.097

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

Nominal Velocity of Propagation:

VP (%)
83

Nominal Delay:

Delay (ns/ft)
1.2

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
4.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
5	0.5
55	1.4
211	2.6
500	4.1
750	5.1
862	5.5
1000	6.0
1450	7.8
1800	8.6
2250	9.8
3000	11.3

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)

5	0.67
55	1.60
211	2.87
500	4.48
750	5.59
862	5.98
1000	6.54
1450	8.0
1800	8.8
2250	10.0
3000	11.9

Max. Operating Voltage - UL:

Voltage
350 V RMS

Shield Effectiveness:

Start Freq. (MHz)	Stop Freq. (MHz)	Effectiveness (dB)
5	50	105
50	1000	125

Minimum Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	1000	20
1000	2250	15
2250	3000	10

Sweep Test

Sweep Testing: 5 MHz - 3 GHz

Notes (Overall)

Notes: Shielding effectiveness determined from screening attenuation measurement when tested in accordance with IEC 61196-1.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7915A 009U1000	1,000 FT	30.000 LB	WHITE		#18 GIFHDLDPE SH FS PVC
7915A 009U500	500 FT	15.500 LB	WHITE		#18 GIFHDLDPE SH FS FRPVC
7915A 0091000	1,000 FT	30.000 LB	WHITE	C	#18 GIFHDLDPE SH FS FRPVC
7915A 009500	500 FT	15.500 LB	WHITE	C	#18 GIFHDLDPE SH FS FRPVC
7915A 010U1000	1,000 FT	30.000 LB	BLACK		#18 GIFHDLDPE SH FS PVC
7915A 010U500	500 FT	15.500 LB	BLACK		#18 GIFHDLDPE SH FS FRPVC
7915A 0101000	1,000 FT	30.000 LB	BLACK	C	#18 GIFHDLDPE SH FS FRPVC
7915A 010500	500 FT	15.500 LB	BLACK	C	#18 GIFHDLDPE SH FS FRPVC

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 08-10-2012

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.
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.