Detailed Specifications & Technical Data

METRIC 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.

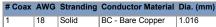
Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	4.572

Outer Shield

Outer Shield Material:

Layer # Outer Shield Trade Name Type		Type	Outer Shield Material	Coverage (%)
1	Bonded Duofoil®	Таре	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: 6.985 mm

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	47.622 Kg/Km
Max. Recommended Pulling Tension:	404.786 N
Min. Bend Radius/Minor Axis:	69.850 mm

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

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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/m) 0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 53.1522

Nominal Velocity of Propagation:

VP (%) 83

Nominal Delay:

Delay (ns/m) 3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 20.9984

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 15.0926

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	1.6405
55	4.5934
211	8.5306
500	13.4521
750	16.7331
862	18.0455
1000	19.686
1450	25.5918
1800	28.2166
2250	32.1538
3000	37.0753

Max. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
5	2.19827
55	5.2496
211	9.41647
500	14.6989
750	18.3408
862	19.6204
1000	21.4577
1450	26.248
1800	28.8728
2250	32.81
3000	39.0439

Max. Operating Voltage - UL:

Voltage 350 V RMS

Shield Effectiveness:

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

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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	С	#18 GIFHDLDPE SH FS FRPVC
7915A 009500	500 FT	15.500 LB	WHITE	С	#18 GIFHDLDPE SH FS FRPVC
7915A 010N1000	1,000 FT	31.000 LB	BLACK		#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	С	#18 GIFHDLDPE SH FS FRPVC
7915A 010500	500 FT	15.500 LB	BLACK	С	#18 GIFHDLDPE SH FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

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