Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



1505S6 Coax - RG-59/U Type

For more Information please call

1-800-Belden1



General Description:

20 AWG solid .032" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® (100% Coverage) plus a tinned copper braid shield (95% coverage), individual PVC jackets.

Usage (Overall)

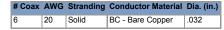
Suitable Applications:

RGB, VGA, SVGA, XGA, SXGA, UXGA, HDTV, LCD, Plasma, Digital Signage, Component Video, Video Mult, Animation, Special Effects, Suitable for use in Risers

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

6

Insulation

Insulation Material:

Insulation Material	Dia. (in.)
Gas-injected FHDPE - Foam High Density Polyethylene	.145

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

Inner Jacket

Inner Jacket Material:



Inner Jacket Color Code Chart:

Number	Color
1	Red
2	Green
3	Blue
4	White
5	Yellow

Outer Jacket

Outer Jacket Material:



Overall Cable

 Overall Cabling Fillers:
 Bonded Spline

 Overall Nominal Diameter:
 0.790 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-35°C To +75°C
UL Temperature Rating:	60°C
Non-UL Temperature Rating:	75°C
Bulk Cable Weight:	208 lbs/1000 ft.
Max. Recommended Pulling Tension:	432 lbs.
Min. Bend Radius/Minor Axis:	10 in.

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plicable Standards & Environmental Programs	
NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMG
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
RG Type:	59/U
pplicable Patents: Country www.belden.com/p	
me Test	
UL Flame Test:	UL1666 Vertical Shaft
itability	
Suitability - Indoor:	Yes
num/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:

Inductance (µH/ft) 0.107

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

Nominal Velocity of Propagation:

VP (%) 83

Nominal Delay:

Delay (ns/ft) 1.22

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 10.0

Nom. Inner Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 3.8

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	0.3
3.6	0.6
10	0.9
71.5	2.1
135	2.7
270	3.8
360	4.4
540	5.5
720	6.4
750	6.5

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1000	7.6	
1500	9.4	
2500	12.4	
3000	13.8	

Max. Operating Voltage - UL:

Voltage					
300 V RMS					

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2:

Return Loss Tested in Accordance With ASTM D-4566 Paragraph 45.3, Using a 75 Ohm Fixed Bridge and

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	475	20
475	525	15
525	850	20
850	4500	15

Sweep Test

Sweep Testing:

Sweep tested 5 MHz to 4.5 GHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1505S6 0001000	1,000 FT	250.000 LB	NONE	С	BONDED FILLER COMPOSITE
1505S6 000500	500 FT	117.500 LB	NONE	С	BONDED FILLER COMPOSITE

Notes: C = CRATE REEL PUT-UP.

Revision Number: 0 Revision Date: 02-28-2014

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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