## **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



#### 1505S3 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.

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#### Usage (Overall)

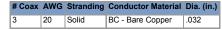
Suitable Applications:

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:** 

#### 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 Material    | Nom. Dia. (in.) |
|--------------------------|-----------------|
| PVC - Polyvinyl Chloride | .235            |

#### Inner Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1      | Red   |
| 2      | Green |
| 3      | Blue  |

#### **Outer Jacket**

#### **Outer Jacket Material:**



#### **Overall Cable**

| Overall Cabling Fillers:  | Bonded Spline |  |  |
|---------------------------|---------------|--|--|
| Overall Nominal Diameter: | 0.502 in.     |  |  |
| 1 : 101 ( : ( 0 11)       |               |  |  |

#### **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:                | 97 lbs/1000 ft. |  |  |
| Max. Recommended Pulling Tension: | 216 lbs.        |  |  |
| Min. Bend Radius/Minor Axis:      | 6.500 in.       |  |  |

#### **Applicable Specifications and Agency Compliance (Overall)**

#### **Applicable Standards & Environmental Programs**

| NEC/(UL) Specification: | CMR |
|-------------------------|-----|
|                         |     |

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| 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                  |
| Applicable Patents:                   |                       |
| www.belden.com/p                      |                       |
| Flame Test                            |                       |
| UL Flame Test:                        | UL1666 Vertical Shaft |
| Suitability                           |                       |
| Suitability - Indoor:                 | Yes                   |
| Plenum/Non-Plenum                     |                       |
| Plenum (Y/N):                         | No                    |
| FI4                                   |                       |

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)
75

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:

| 0.3<br>0.6<br>0.9 |
|-------------------|
| 0.9               |
|                   |
|                   |
| 2.1               |
| 2.7               |
| 3.8               |
| 1.4               |
| 5.5               |
| 5.4               |
| 3.5               |
| 7.6               |
| 9.4               |
| 12.4              |
| 13.8              |
|                   |

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### 1505S3 Coax - RG-59/U Type

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 Termination.

#### 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               |
|----------------|----------|-------------|-------|-------|-------------------------|
| 1505S3 0001000 | 1,000 FT | 103.000 LB  | NONE  | С     | BONDED FILLER COMPOSITE |
| 1505S3 000500  | 500 FT   | 55.000 LB   | NONE  | С     | BONDED FILLER COMPOSITE |

C = CRATE REEL PUT-UP.

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

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