

# 1855A Coax - Sub-Miniature

|   |              |                                  | 185                       | 5A Coax - Sub-Miniature          |
|---|--------------|----------------------------------|---------------------------|----------------------------------|
|   |              |                                  |                           | For more Information please call |
|   |              |                                  |                           | 1-800-Belden1                    |
|   |              |                                  |                           |                                  |
| Description   |              |                                  |                           |                                  |
| 3 AWG solid .023" bare copper conc<br>overage), PVC jacket. | luctor, gas- | injected foam HDPE insulation, I | Duofoil® + tinned cop     | pper braid shield (95%           |
| Physical Characteristics (Overa                             | all):        |                                  |                           |                                  |
|   | ne Type Out  | 0.023<br>Dia. (in.)              | Coverage (%)<br>100<br>95 |                                  |
| Overall Nominal Diameter:                                   |              | .159 in.                         |                           |                                  |
| Mechanical Characteristics (Ov                              | erall):      |                                  |                           |                                  |
| Operating Temperature Range                                 |              | -30°C To +75°C                   |                           |                                  |
| UL Temperature Rating                                       |              | 75°C                             |                           |                                  |
| Bulk Cable Weight:  |              | 18 lbs/1000 ft.                  |                           |                                  |
| Max. Recommended Pulling Tens                               | sion:        | 36 lbs.                          |                           |                                  |
| Min. Bend Radius (Install)/Minor A                          |              | 1.500 in.                        |                           |                                  |
| Applicable Specifications and A                             |              |                                  |                           |                                  |
| Applicable Standards:                                       | syency of    |                                  |                           |                                  |

| Flame Test:<br>UL Flame Test         | UL1666 Vertical Shaft |
|--------------------------------------|-----------------------|
| RG Type                              | Sub-miniature 59/U    |
| EU RoHS Compliance Date (mm/dd/yyyy) | 01/01/2004            |
| EU RoHS Compliant (Y/N)              | Yes                   |
| EU CE Mark (Y/N)                     | Yes                   |
| CEC/C(UL) Specification              | CMG                   |
| NEC/(UL) Specification               | CMR                   |

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Suitability:
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## 1855A Coax - Sub-Miniature

| Suitability - Outdoor   |   | Yes - Black only                                     |  |  |
|---|---|--|--|--|
| Suitability - Aerial  |   | Yes - Black only, when supported by a messenger wire |  |  |
| Plenum (Y/N)  |   | No   |  |  |
| ctrical Charact   | eristics (Overal  | II):   |  |  |
| Iom. Characterist   | ic Impedance  |  |  |  |
| Impedance (C  |   |  |  |  |
|   |   |  |  |  |
| lom. Inductance   | H/ft)   |  |  |  |
| 0.107   | Conductor to Shi  | ield   |  |  |
| Capacitance   |   |  |  |  |
| 16.300  |   |  |  |  |
| Iominal Velocity  | <br>of Propagation  |  |  |  |
| VP (%)  |   |  |  |  |
| 82  |   |  |  |  |
| Iominal Delay   |   |  |  |  |
| Delay (ns/ft)   |   |  |  |  |
| 1.220   |   |  |  |  |
| Iom. Conductor E  | C Resistance  |  |  |  |
| DCR @ 20°C  | Ohm/1000 ft)  |  |  |  |
|   |   |  |  |  |
| 20.1  |   |  |  |  |
| 20.1<br>Jominal Outer Sh  | <sup>00</sup><br>ield DC Resistanc  | ce   |  |  |
| 20.1<br>Iominal Outer Sh<br>DCR @ 20°C  | 00<br>ield DC Resistanc<br>Ohm/1000 ft)   | ce   |  |  |
| 20.1<br>Iominal Outer Sh<br>DCR @ 20°C<br>7.60  | 00<br>ield DC Resistanc<br>Ohm/1000 ft)   | ce   |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation  | oo<br>ield DC Resistanc<br>Ohm/1000 ft)<br>oo   | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) A   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.   | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) A<br>1.000  | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390  | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) A   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.   | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780   | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200  | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MH2) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830  | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MH2) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060  | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MH2) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500   | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830  | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500   | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160  | _  |  |  |
| 20.1<br>Nominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Nom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000  | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920   | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>180.000   | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920<br>4.380  | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>180.000<br>270.000  | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400   | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>180.000<br>270.000<br>360.000   | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400<br>6.200  | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>143.000<br>270.000<br>360.000<br>540.000  | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400<br>6.200<br>7.700   | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>135.000<br>270.000<br>360.000<br>540.000<br>720.000                                     | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400<br>6.200<br>7.700<br>9.470  | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) /<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>143.000<br>270.000<br>360.000<br>540.000  | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400<br>6.200<br>7.700   | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>135.000<br>270.000<br>360.000<br>540.000<br>750.000                                     | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.30<br>3.310<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400<br>6.200<br>7.700<br>9.470<br>9.590  | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>135.000<br>143.000<br>270.000<br>360.000<br>540.000<br>750.000<br>1000.000              | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.300<br>3.330<br>3.810<br>3.920<br>4.380<br>5.400<br>6.200<br>7.700<br>9.470<br>9.590<br>10.500  | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>143.000<br>143.000<br>540.000<br>720.000<br>750.000<br>1000.000<br>2250.000             | 00<br>ield DC Resistanc<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.30<br>3.310<br>3.330<br>3.410<br>3.330<br>3.410<br>3.330<br>3.410<br>3.330<br>3.410<br>3.320<br>4.380<br>5.400<br>6.200<br>7.700<br>9.470<br>9.590<br>10.500<br>13.000<br>15.100<br>16.000 | _  |  |  |
| 20.1<br>Jominal Outer Sh<br>DCR @ 20°C<br>7.60<br>Jom. Attenuation<br>Freq. (MHz) A<br>1.000<br>3.580<br>5.000<br>7.000<br>10.000<br>67.500<br>71.500<br>88.500<br>100.000<br>135.000<br>143.000<br>143.000<br>143.000<br>540.000<br>720.000<br>750.000<br>1000.000<br>1500.000<br>2000.000 | 00<br>ield DC Resistance<br>Ohm/1000 ft)<br>00<br>ttenuation (dB/100 ft.<br>0.390<br>0.780<br>0.920<br>1.080<br>1.200<br>2.830<br>3.060<br>3.160<br>3.30<br>3.30<br>3.410<br>3.330<br>3.410<br>3.330<br>3.410<br>3.920<br>4.380<br>5.400<br>6.200<br>7.700<br>9.470<br>9.590<br>10.500<br>13.000<br>15.100                                      | _  |  |  |



#### Voltage 300 V RMS

300 V RIVIS

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. 75 +/- 1.5 Ohms

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) |
|-------------------|------------------|--------------|
| 5.000             | 1600.000         | 23.000       |
| 1601.000          | 4500.000         | 21.000       |

#### Sweep Test:

Sweep Testing

100% Sweep tested 5 MHz to 4.5 GHz.

#### Notes (Overall):

Notes Also available in multiples, bundled. See 7787A through 7792A.

### PUT UPS AND COLORS:

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc                      |
|---------------|----------|-------------|-------------|-------|--------------------------------|
| 1855A 0011000 | 1,000 FT | 17.000 LB   | BROWN       | С     | #23 PE/GIFHDPE SH FR PVC BRN   |
| 1855A 0021000 | 1,000 FT | 17.000 LB   | RED         | С     | #23 PE/GIFHDPE SH FR PVC RED   |
| 1855A 0031000 | 1,000 FT | 17.000 LB   | ORANGE      | С     | #23 PE/GIFHDPE SH FR PVC ORG   |
| 1855A 0041000 | 1,000 FT | 17.000 LB   | YELLOW      | С     | #23 PE/GIFHDPE SH FR PVC YEL   |
| 1855A 0061000 | 1,000 FT | 17.000 LB   | BLUE, LIGHT | С     | #23 PE/GIFHDPE SH FR PVC BLULT |
| 1855A 0071000 | 1,000 FT | 17.000 LB   | VIOLET      | С     | #23 PE/GIFHDPE SH FR PVC VIO   |
| 1855A 0081000 | 1,000 FT | 17.000 LB   | GRAY        | С     | #23 PE/GIFHDPE SH FR PVC GRY   |
| 1855A 0091000 | 1,000 FT | 17.000 LB   | WHITE       | С     | #23 PE/GIFHDPE SH FR PVC WHT   |
| 1855A 0101000 | 1,000 FT | 17.000 LB   | BLACK       | С     | #23 PE/GIFHDPE SH FR PVC BLK   |
| 1855A 010500  | 500 FT   | 9.500 LB    | BLACK       |       | #23 PE/GIFHDPE SH FR PVC BLK   |
| 1855A N3U1000 | 1,000 FT | 17.000 LB   | GREEN, MIL  | С     | #23 PE/GIFHDPE SH FR PVC GRNML |

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 8 Revision Date: 04-18-2008

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Belden believes this product to be in compliance with the following environmental regulations: California Proposition 65 Consent Judgment For Wire & Cable Mfgs.(San Francisco Superior Court Nos. 312962 And 320342); EU RoHS (Directive 2002/95/EC, 27-Jan-2003); Material manufactured prior to the compliance date may still be in stock at Belden facilities and in our Distributor's inventory; and China Ministry of Information Industry order#39 (China RoHS). EU ELV (Directive 2000/53/EC, 18-Sept-2000); EU WEEE (Directive 2002/96/EC, 27-Jan-2003); EU BFR (Directive 2003/11/EC, 6-Feb-2003). The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information and belief at the date of its publication. The information provided in the Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product



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Disclosure is not 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.