

1865A Coax - Sub-Miniature

For more Information
please call

1-800-Belden1

**General Description:**

25 AWG stranded (19x37) .021" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 25 | 19x37 | BC - Bare Copper | .021 |

Total Number of Conductors: 1

Insulation**Insulation Material:**

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .094 |

Outer Shield**Outer Shield Material:**

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

Outer Jacket**Outer Jacket Material:**

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.150 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|-----------------|
| Operating Temperature Range: | -30°C To +75°C |
| UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 14 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 30 lbs. |
| Min. Bend Radius/Minor Axis: | 1.500 in. |

Applicable Specifications and Agency Compliance (Overall)**Applicable 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: | Sub-miniature 59/U |
|----------|--------------------|

Flame Test

| | |
|----------------|-----------------------|
| UL Flame Test: | UL1666 Vertical Shaft |
|----------------|-----------------------|

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

| |
|-----------------|
| Impedance (Ohm) |
|-----------------|

| |
|----|
| 75 |
|----|

Nom. Inductance:

| |
|--------------------|
| Inductance (μH/ft) |
|--------------------|

| |
|------|
| .093 |
|------|

Nom. Capacitance Conductor to Shield:

| |
|---------------------|
| Capacitance (pF/ft) |
|---------------------|

| |
|------|
| 16.5 |
|------|

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
|--------|

| |
|----|
| 82 |
|----|

Nominal Delay:

| |
|---------------|
| Delay (ns/ft) |
|---------------|

| |
|------|
| 1.24 |
|------|

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|

| |
|------|
| 27.4 |
|------|

Nominal Outer Shield DC Resistance:

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|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|

| |
|-----|
| 5.4 |
|-----|

Nom. Attenuation:

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

| | |
|---|-----|
| 1 | .47 |
|---|-----|

| | |
|------|-----|
| 3.58 | 1.0 |
|------|-----|

| | |
|---|-----|
| 5 | 1.1 |
|---|-----|

| | |
|---|-----|
| 7 | 1.3 |
|---|-----|

| | |
|----|-----|
| 10 | 1.6 |
|----|-----|

| | |
|------|-----|
| 67.5 | 3.6 |
|------|-----|

| | |
|------|-----|
| 71.5 | 3.7 |
|------|-----|

| | |
|------|-----|
| 88.5 | 4.1 |
|------|-----|

| | |
|-----|-----|
| 100 | 4.4 |
|-----|-----|

| | |
|-----|-----|
| 135 | 5.0 |
|-----|-----|

| | |
|-----|-----|
| 143 | 5.1 |
|-----|-----|

| | |
|-----|-----|
| 180 | 5.8 |
|-----|-----|

| | |
|-----|-----|
| 270 | 7.1 |
|-----|-----|

| | |
|-----|-----|
| 360 | 8.2 |
|-----|-----|

| | |
|-----|------|
| 540 | 10.1 |
|-----|------|

| | |
|-----|------|
| 720 | 11.8 |
|-----|------|

| | |
|------|------|
| 750 | 12.0 |
| 1000 | 13.9 |
| 1500 | 17.0 |
| 2000 | 19.6 |
| 2250 | 20.8 |
| 3000 | 24.0 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 48.2, 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 50.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000 | 850.000 | 21.000 |
| 850.000 | 3000.000 | 18.000 |

Sweep Test**Sweep Testing:**

100% Sweep tested 5 MHz to 3 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|-----------------------|
| 1865A N3U1000 | 1,000 FT | 16.000 LB | GREEN, MIL | | #25 GIFHDPE SH FR PVC |
| 1865A 0011000 | 1,000 FT | 16.000 LB | BROWN | C | #25 GIFHDPE SH FR PVC |
| 1865A 0021000 | 1,000 FT | 16.000 LB | RED | C | #25 GIFHDPE SH FR PVC |
| 1865A 0031000 | 1,000 FT | 16.000 LB | ORANGE | | #25 GIFHDPE SH FR PVC |
| 1865A 0041000 | 1,000 FT | 16.000 LB | YELLOW | | #25 GIFHDPE SH FR PVC |
| 1865A 0061000 | 1,000 FT | 16.000 LB | BLUE, LIGHT | C | #25 GIFHDPE SH FR PVC |
| 1865A 0071000 | 1,000 FT | 16.000 LB | VIOLET | C | #25 GIFHDPE SH FR PVC |
| 1865A 0081000 | 1,000 FT | 16.000 LB | GRAY | | #25 GIFHDPE SH FR PVC |
| 1865A 0091000 | 1,000 FT | 16.000 LB | WHITE | C | #25 GIFHDPE SH FR PVC |
| 1865A 0101000 | 1,000 FT | 16.000 LB | BLACK | C | #25 GIFHDPE SH FR PVC |

Notes:

C = CRATE REEL PUT-UP.

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