

## 735A1P Coax - 735A\* Series



For more Information  
please call

1-800-Belden1

**General Description:**

26 AWG solid .016" silver-plated copper conductor(s), plenum, foam FEP insulation, Beldfoil® + tinned copper braid shield (93% coverage), Flamarrest® jacket.

**Physical Characteristics (Overall)****Conductor**

AWG:

| # Coax | AWG | Stranding | Conductor Material         | Dia. (in.) |
|--------|-----|-----------|----------------------------|------------|
| 1      | 26  | Solid     | SPC - Silver Plated Copper | .016       |

Total Number of Conductors: 1

**Insulation**

Insulation Material:

| Insulation Material                        | Dia. (in.) |
|--|------------|
| FFEP - Foam Fluorinated Ethylene Propylene | .077       |

**Outer Shield**

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type  | Outer Shield Material        | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1       | Beldfoil®               | Tape  | Aluminum Foil-Polyester Tape | 100          |
| 2       |                         | Braid | TC - Tinned Copper           | 93           |

**Outer Jacket**

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                 |
|-------------------------|---------------------------------------|
| Flamarrest®             | LS PVC - Low Smoke Polyvinyl Chloride |

**Overall Cable**

Overall Nominal Diameter: 0.129 in.

**Mechanical Characteristics (Overall)**

Operating Temperature Range: 0°C To +75°C

Bulk Cable Weight: 18 lbs/1000 ft.

Max. Recommended Pulling Tension: 25 lbs.

Min. Bend Radius/Minor Axis: 0.900 in.

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 04/01/2006

|                                   |                                     |
|-----------------------------------|-------------------------------------|
| EU Directive 2002/96/EC (WEEE):   | Yes                                 |
| EU Directive 2003/11/EC (BFR):    | Yes                                 |
| CA Prop 65 (CJ for Wire & Cable): | Yes                                 |
| MIL Order #39 (China RoHS):       | Yes                                 |
| Other Specification:              | Telcordia Specification GR-139-CORE |

**Flame Test**

|                   |          |
|-------------------|----------|
| UL Flame Test:    | NFPA 262 |
| C(UL) Flame Test: | FT6      |

**Suitability**

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

**Plenum/Non-Plenum**

|                    |       |
|--------------------|-------|
| Plenum (Y/N):      | Yes   |
| Non-Plenum Number: | 735A1 |

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

| Impedance (Ohm) |
|-----------------|
| 75              |

**Nom. Inductance:**

| Inductance (μH/ft) |
|--------------------|
| .97                |

**Nom. Capacitance Conductor to Shield:**

| Capacitance (pF/ft) |
|---------------------|
| 17.7                |

**Nominal Velocity of Propagation:**

| VP (%) |
|--------|
| 76     |

**Nominal Delay:**

| Delay (ns/ft) |
|---------------|
| 1.34          |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 41                       |

**Nom. Inner Shield DC Resistance:**

| Description | DCR @ 20°C (Ohm/1000 ft) |
|-------------|--------------------------|
|             | 5.3                      |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 5.3                      |

**Max. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000       | 0.600                    |
| 1.024       | 0.610                    |
| 4.224       | 1.100                    |
| 5.000       | 1.200                    |
| 10.000      | 1.700                    |
| 17.184      | 2.200                    |
| 22.368      | 2.500                    |
| 25.920      | 2.700                    |
| 44.736      | 3.600                    |
| 50.000      | 3.800                    |
| 69.632      | 4.500                    |

|         |       |
|---------|-------|
| 77.760  | 4.800 |
| 100.000 | 5.500 |
| 137.088 | 6.400 |
| 200.000 | 7.800 |

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 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:** RL tested in Accordance with ASTM D-4566 Paragraph 45.3, using a 75 Ohm Fixed Bridge and Termination.

**Other Electrical Characteristic 3:** 100% Sweep tested.

**Minimum Return Loss:**

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
|             |             | 15                | 95               | 30           |

**Put Ups and Colors:**

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc         |
|----------------|----------|-------------|-------|-------|-------------------|
| 735A1P 0081000 | 1,000 FT | 14.000 LB   | GRAY  | C     | #26 FPFA SH FLRST |
| 735A1P 008500  | 500 FT   | 7.500 LB    | GRAY  | C     | #26 FPFA SH FLRST |

**Notes:**

C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 12-02-2008

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