

**Product:** [735A1P](#) 

DS-3 and DS-4, 735\* Series, #26-1 SPC Coax, CMP



## Product Description

26 AWG solid .016" silver-plated copper conductor(s), plenum, foam FEP insulation, Beldfoil®; tinned copper braid shield (95% coverage), Flamarrest® jacket.

## Technical Specifications

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material                             | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------------------------|------------------|-------------|
| 26  | Solid     | SCCS - Silvered Copper Covered Steel | 0.016 in         | 1           |

Conductor Count: 1

#### Insulation

| Material                                    | Nominal Diameter |
|---------------------------------------------|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | 0.077 in         |

#### Outer Shield Material

| Type  | Layer | Material           | Material Trade Name | Coverage [%] |
|-------|-------|--------------------|---------------------|--------------|
| Tape  | 1     | Alum / Poly        | Beldfoil®           | 100%         |
| Braid | 2     | Tinned Copper (TC) |                     | 93%          |

#### Outer Jacket Material

| Material                                | Material Trade Name | Nominal Diameter |
|-----------------------------------------|---------------------|------------------|
| PVC-LS - Polyvinyl Chloride (Low Smoke) | Flamarrest®         | 0.129 in         |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Inner Shield DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|-----------------------|----------------------|--------------------------|--------------------------|---------------------|
| 41 Ohm/1000ft         | 41 Ohm/1000ft         |                      | 5.3 Ohm/1000ft           | 5.3 Ohm/1000ft           | 5.3 Ohm/1000ft      |

#### Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 17.7 pF/ft                           |

#### Inductance

| Nominal Inductance |
|--------------------|
| 0.097 µH/ft        |

#### Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 75 Ohm                           |

#### Return Loss (RL)

| Frequency [MHz] | Minimum Return (RL) |
|-----------------|---------------------|
| 15-95 MHz       | 30 dB               |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.34 ns/ft    | 76%                                      |

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 1 MHz           | 0.6 dB/100ft                      |
| 1.024 MHz       | 0.61 dB/100ft                     |
| 4.224 MHz       | 1.1 dB/100ft                      |
| 5 MHz           | 1.2 dB/100ft                      |
| 10 MHz          | 1.7 dB/100ft                      |
| 17.184 MHz      | 2.2 dB/100ft                      |
| 22.368 MHz      | 2.5 dB/100ft                      |
| 25.92 MHz       | 2.7 dB/100ft                      |
| 44.736 MHz      | 3.6 dB/100ft                      |
| 50 MHz          | 3.8 dB/100ft                      |
| 69.632 MHz      | 4.5 dB/100ft                      |
| 77.76 MHz       | 4.8 dB/100ft                      |
| 100 MHz         | 5.5 dB/100ft                      |
| 137.088 MHz     | 6.4 dB/100ft                      |
| 200 MHz         | 7.8 dB/100ft                      |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                       |              |
|-----------------------|--------------|
| Operating Temp Range: | 0°C To +75°C |
|-----------------------|--------------|

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 18 lbs/1000ft |
| Max. Pull Tension:          | 25 lbs        |
| Min Bend Radius/Minor Axis: | 0.9 in        |

Standards

|                       |                                     |
|-----------------------|-------------------------------------|
| NEC/(UL) Compliance:  | CMP                                 |
| CEC/C(UL) Compliance: | CMP                                 |
| RG Type:              | Mini 59/U Type                      |
| Other Compliance:     | Telcordia Specification GR-139-CORE |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| Environmental Space:                  | Indoor - Plenum               |
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/11/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2006-04-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

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

Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | NFPA 262  |
| CSA Flammability:  | FT6       |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

|                    |       |
|--------------------|-------|
| Non-Plenum Number: | 735A1 |
|--------------------|-------|

Variants

| Item #         | Color | Putup Type | Length   | UPC          |
|----------------|-------|------------|----------|--------------|
| 735A1P 008500  | Gray  | Reel       | 500 ft   | 612825184706 |
| 735A1P 0081000 | Gray  | Reel       | 1,000 ft | 612825184690 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.153 Revision Date: 04-02-2020 |
|----------------------|--------------------------------------------------|

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