Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



735A24 Coax - 735A* Series

For more Information please call

1-800-Belden1



General Description:

26 AWG solid .016" silver-plated copper conductor(s), foam HDPE insulation, Beldfoil® + tinned copper braid shield (95% coverage), PVC jacket.

24

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|----------------------------|------------|
| 24 | 26 | Solid | SPC - Silver Plated Copper | .016 |

Total Number of Conductors:

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--|------------|
| FHDPE - Foam High Density Polyethylene | .077 |

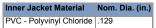
Inner Shield

Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100.000 |
| 2 | | Braid | TC - Tinned Copper | 95.000 |

Inner Jacket

Inner Jacket Material:



Outer Shield

Outer Shield Material:



Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.870 in.

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -40°C To +75°C |
|-----------------------------------|------------------|
| Bulk Cable Weight: | 389 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 600 lbs. |
| Min. Bend Radius (Each Coax): | 1.250 in. |
| Min. Bend Radius (Overall): | 8.750 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 |

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| 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 |
| Other Specification: | Telcordia Specification GR-139-Core |
| Flame Test | |
| UL Flame Test: | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4 |
| 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)

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
17.7

Nominal Velocity of Propagation:

VP (%) 76

Nominal Delay:

Delay (ns/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

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:

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.

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Other Electrical Characteristic 2: RL tested in Accordance with ASTM D-4566 Paragraph 45.3, using a 75 Ohm Fixed Bridge and Termination.

100% Sweep tested

Other Electrical Characteristic 3: Minimum Return Loss

Description Freq. (MHz) Start Freq. (MHz) Stop Freq. (MHz) Min. RL (dB)

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------|-------|----------------------------|
| 735A24 0081000 | 1,000 FT | 454.000 LB | GRAY | С | 24 #26 PE/FPE SH PVC FRPVC |

Notes: C = CRATE REEL PUT-UP.

Revision Date: 08-02-2013 Revision Number: 3

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