

 **Part Number:** 1494A300V, (8 pr) 16 AWG (7x24) BC, (1) 22 AWG (7x30) BC,  
PVC/PVC, Foil Shld, PLTC-ER, CMG

## Product Description

Eight 16 AWG pairs stranded (7x24) bare copper conductors, one 22 AWG stranded (7x30) bare copper conductor, twisted pairs, PVC insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

## Construction and Dimensions

### Conductor:

| AWG                         | Stranding | Material         | No. of Conductors | No. of Pairs |
|-----------------------------|-----------|------------------|-------------------|--------------|
| 16                          | 7x24      | BC - Bare Copper |                   | 8            |
| 22                          | 7x30      | BC - Bare Copper | 1                 |              |
| Total Number of Conductors: |           |                  | 17                |              |

### Insulation:

| Material                 |
|--------------------------|
| PVC - Polyvinyl Chloride |

### Color Chart 1:

| Number             | Color                        |
|--------------------|------------------------------|
| 1                  | Black & White and Numbered 1 |
| 2                  | Black & White and Numbered 2 |
| 3                  | Black & White and Numbered 3 |
| 4                  | Black & White and Numbered 4 |
| 5                  | Black & White and Numbered 5 |
| 6                  | Black & White and Numbered 6 |
| 7                  | Black & White and Numbered 7 |
| 8                  | Black & White and Numbered 8 |
| Communication Wire | Orange                       |

Innershield:

| Type | Material                     | Material Trade Name | Coverage [%] | Drainwire AWG      | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil®           | 100 %        | 18                 | 7x26 mm                      |
|      |                              |                     |              | TC - Tinned Copper |                              |

Outershield 1:

| Type | Material                     | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil®           | 100 %        | TC - Tinned Copper | 16            | 7x24 mm                      |

Outerjacket 1:

| Material                 | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 0.677 in         | 0.063 in               | Yes     |

|               |                                                                                                                                                                                 |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Print Legend: | BELDEN 1494A E34972 8PR16 1C22 SHIELDED (UL) CMG 105C OR PLTC OR ITC SUN RES DIR BUR OR AWM 2464 80C 300V OR C(UL) CMG----FT4 IEEE 1202 (2 FT., 7 DIGIT SEQUENTIAL NUMBER) FEET |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Electrical Characteristics

Conductor DCR:

| Element | Individual Pair Nominal Shield DCR | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|------------------------------------|-----------------------|--------------------------|
| 16 AWG  | 5.07 Ohm/1000ft                    | 3.67 Ohm/1000ft       | 2.95 Ohm/1000ft          |
| 22 AWG  |                                    | 14.7 Ohm/1000ft       |                          |

Capacitance:

| Nom. Capacitance Conductor to Other Conductor to Shield |
|---------------------------------------------------------|
| 60 pF/ft                                                |

Voltage:

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

Use

|                                    |         |
|------------------------------------|---------|
| Suitability - Burial:              | Yes     |
| Suitability - Sunlight Resistance: | Yes     |
| Max Recommended Pulling Tension:   | 795 lbs |

Safety

|                   |     |
|-------------------|-----|
| CSA Flammability: | FT4 |
|-------------------|-----|

|                    |                    |
|--------------------|--------------------|
| IEEE Flammability: | 1202               |
| UL Flammability:   | UL1685 FT4 Loading |

## Temperature Range

|                       |                 |
|-----------------------|-----------------|
| Operating Temp Range: | -30°C To +105°C |
|-----------------------|-----------------|

## Mechanical Characteristics

|                             |        |
|-----------------------------|--------|
| Min Bend Radius/Minor Axis: | 6.9 in |
|-----------------------------|--------|

## Part Number

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

## Standards

|                                   |                                  |
|-----------------------------------|----------------------------------|
| CA Prop 65 (CJ for Wire & Cable): | CA Prop 65 (CJ for Wire & Cable) |
| CEC/C(UL) Specification:          | CEC/C(UL) Specification          |
| MII Order #39 (China RoHS):       | MII Order #39 (China RoHS)       |
| NEC/(UL) Specification:           | NEC/(UL) Specification           |
| UL AWM Style:                     | AWM Specification                |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |
| EU CE Mark:                       | EU CE Mark                       |

## History

## Product Variants

| Part Number   | Color | Put-Up Type | Length  |
|---------------|-------|-------------|---------|
| 1494A 0105000 | BLACK | Reel        | 5000 ft |

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