



**Part Number:** 3088AE

600V Tray, (1 pr) 18 AWG (7x26) BC+Grd, (1) 18 AWG (7x26) BC, PVC-NYL/PVC, Foil Shld, TC-ER

## Product Description

One 18 AWG pair stranded (7x26) bare copper plus ground wire, one 18 AWG stranded (7x26) bare copper conductor, twisted pairs, PVC-Nylon insulation, overall Beldfoil® shield (100% coverage), PVC jacket.

## Product Specifications

## Technical Specifications

|                               |   |
|-------------------------------|---|
| <b>Suitable Applications:</b> | Instrumentation Applications in Plants, TC-ER, Exposed Run Applications |
|-------------------------------|---|

## Construction and Dimensions

### Conductor:

| Element     | AWG | Stranding | Material         | No. of Conductors | No. of Pairs |
|-------------|-----|-----------|------------------|-------------------|--------------|
|             | 18  | 7x26      | BC - Bare Copper | 1                 | 1            |
| Ground Wire | 18  | 7x26      | BC - Bare Copper |                   |              |

|                                    |   |
|------------------------------------|---|
| <b>Total Number of Conductors:</b> | 3 |
|------------------------------------|---|

### Insulation:

| Material                             |
|--------------------------------------|
| PVC/Nylon - Polyvinyl Chloride/Nylon |
| PVC/Nylon - Polyvinyl Chloride/Nylon |

### Color Chart 1:

| Number | Color         |
|--------|---------------|
| 1      | Black & White |
| 2      | Green         |
| 1      | Black & White |

### Stranding:

| Lay Length |
|------------|
| Y mm       |

### Innershield:

| Type | Material                     | Material Trade Name | Coverage [%] | Drainwire AWG      | Drainwire Construction n x D |
|------|------------------------------|---------------------|--------------|--------------------|------------------------------|
| Tape | Aluminum Foil-Polyester Tape | Beldfoil®           | 100 %        | 20                 | 7x28 mm                      |
|      |                              |                     |              | TC - Tinned Copper |                              |

### Outerjacket 1:

| Material                 | Nominal Diameter | Nominal Wall Thickness | Ripcord |
|--------------------------|------------------|------------------------|---------|
| PVC - Polyvinyl Chloride | 0.34 in          | 0.048 in               | Yes     |

## Electrical Characteristics

### Conductor DCR:

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 5.86 Ohm/1000ft       | 7.46 Ohm/1000ft          |

### Capacitance:

| Nom. Capacitance Conductor to Shield | Nom.Mutual Capacitance |
|--------------------------------------|------------------------|
| 74.3 pF/ft                           | 41.3 pF/ft             |

### Inductance:

| Nominal Inductance |
|--------------------|
| 0.1945 µH/ft       |

### Voltage:

| UL Voltage Rating       |
|-------------------------|
| 600 V RMS (NEC Type TC) |
| 150 V RMS (NPLF)        |

## Use

|                                    |     |
|------------------------------------|-----|
| Suitability - Burial:              | Yes |
| Suitability - Sunlight Resistance: | Yes |

|                                  |        |
|----------------------------------|--------|
| Max Recommended Pulling Tension: | 80 lbs |
|----------------------------------|--------|

## Safety

|                     |                   |
|---------------------|-------------------|
| C(UL) Flammability: | FT4               |
| ICEA Flammability:  | T-29-520          |
| IEEE Flammability:  | 1202              |
| UL Flammability:    | UL1685 UL Loading |

## Temperature Range

|                 |                 |
|-----------------|-----------------|
| Dry Temp Range: | -30°C To +90 °C |
| Wet Temp Range: | -30°C To +75°C  |

## Mechanical Characteristics

|                             |        |
|-----------------------------|--------|
| Min Bend Radius/Minor Axis: | 3.4 in |
|-----------------------------|--------|

## Part Number

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

## Standards

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

## History

|        |  |
|--------|--|
| Notes: | Alternate color coding available upon request. |
|--------|--|

## Product Variants

| Part Number    | Color | Put-Up Type | Length  |
|----------------|-------|-------------|---------|
| 3088AE 0101000 | BLACK | Reel        | 1000 ft |
| 3088AE 0105000 | BLACK | Reel        | 5000 ft |

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