



**Part Number:** 29024

600V ACIC, (25) 16 AWG (7x24) BC+Grd,  
XLPE/PVC/PVC, Alum Armor

## Product Description

Twenty-five 16 AWG stranded (7x24) bare copper conductors plus bare copper ground wire, cross-linked polyethylene insulation, PVC inner jacket, aluminum interlocked armor, PVC outer jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| Element                            | AWG | Stranding | Material         | No. of Conductors |
|------------------------------------|-----|-----------|------------------|-------------------|
|                                    | 16  | 7x24      | BC - Bare Copper | 25                |
| Ground Wire                        | 16  | 7x24      | BC - Bare Copper |                   |
| <b>Total Number of Conductors:</b> |     |           |                  | 25                |

#### Insulation:

| Material                         |
|----------------------------------|
| XLPE - Cross Linked Polyethylene |

#### Color Chart 1:

| Number | Color                 |
|--------|-----------------------|
| 1      | White and Numbered 1  |
| 2      | Black and Numbered 2  |
| 3      | Black and Numbered 3  |
| 4      | Black and Numbered 4  |
| 5      | Black and Numbered 5  |
| 6      | Black and Numbered 6  |
| 7      | Black and Numbered 7  |
| 8      | Black and Numbered 8  |
| 9      | Black and Numbered 9  |
| 10     | Black and Numbered 10 |
| 11     | Black and Numbered 11 |
| 12     | Black and Numbered 12 |
| 13     | Black and Numbered 13 |
| 14     | Black and Numbered 14 |
| 15     | Black and Numbered 15 |
| 16     | Black and Numbered 16 |
| 17     | Black and Numbered 17 |
| 18     | Black and Numbered 18 |
| 19     | Black and Numbered 19 |
| 20     | Black and Numbered 20 |
| 21     | Black and Numbered 21 |
| 22     | Black and Numbered 22 |
| 23     | Black and Numbered 23 |
| 24     | Black and Numbered 24 |
| 25     | Black and Numbered 25 |

**Stranding:**

| Lay Length |
|------------|
| PVC mm     |

**Outersheild 1:**

| Material   |
|------------|
| Unshielded |

**Outerjacket 1:**

| Material                 | Nominal Diameter |
|--------------------------|------------------|
| PVC - Polyvinyl Chloride | 0.89 in          |
|                          | 1.26 in          |

**Armor:**

| Type of Armor     | Material | Diameter over Armoring |
|-------------------|----------|------------------------|
| Interlocked Armor | Aluminum | 1.15 mm                |

## Electrical Characteristics

### Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 4.2 Ohm/1000ft        |

### Current:

| Max. Recommended Current [A] |
|------------------------------|
| 6 Amps per conductor @ 25°C  |

### Voltage:

| Non-UL Voltage Rating |
|-----------------------|
| 600 V RMS             |

## Use

|                                    |         |
|------------------------------------|---------|
| Suitability - Burial:              | Yes     |
| Suitability - Sunlight Resistance: | Yes     |
| Max Recommended Pulling Tension:   | 430 lbs |

## Safety

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

## Temperature Range

|                     |                 |
|---------------------|-----------------|
| Dry Temp Range:     | -40°C To +90 °C |
| Non-UL Temp Rating: | 90°C Wet/Dry    |
| Wet Temp Range:     | -40°C To +90°C  |

## Mechanical Characteristics

|                             |         |
|-----------------------------|---------|
| Min Bend Radius/Minor Axis: | 15.1 in |
|-----------------------------|---------|

## Part Number

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

## Standards

|  |                                  |
|--|----------------------------------|
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | CA Prop 65 (CJ for Wire & Cable) |
| <b>CSA AWM Specification:</b>                | CSA Specification                |
| <b>MII Order #39 (China RoHS):</b>           | MII Order #39 (China RoHS)       |
| <b>EU Directive Compliance:</b>              | EU Directive 2003/11/EC (BFR)    |

## History

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