



**Part Number:** 27268

600V Metal Clad, (4) 2 AWG (7x10) BC+Grd, XLPE/PVC, Alum Armor, MC

## Product Description

Four 2 AWG stranded (7x10) bare copper conductors plus ground wire, cross-linked polyethylene insulation, aluminum interlocked armor, PVC jacket.

## Product Specifications

## Technical Specifications

### Construction and Dimensions

#### Conductor:

| Element                            | AWG | Stranding | Material         | No. of Conductors |
|------------------------------------|-----|-----------|------------------|-------------------|
|                                    | 2   | 7x10      | BC - Bare Copper | 4                 |
| Ground Wire                        | 6   | 7x14      | BC - Bare Copper |                   |
| <b>Total Number of Conductors:</b> |     |           |                  | 4                 |

#### Insulation:

| Material                         | Nominal Wall Thickness |
|----------------------------------|------------------------|
| XLPE - Cross Linked Polyethylene | 0.045 in               |

#### Color Chart 1:

| Number | Color    |
|--------|----------|
| 1      | Black #1 |
| 2      | Black #2 |
| 3      | Black #3 |
| 4      | Black #4 |

## Stranding:

| Lay Length |
|------------|
| Yes mm     |

## Outersield 1:

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

## Outerjacket 1:

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 1.22 in          | 0.05 in                |

## Armor:

| Type of Armor     | Material | Diameter over Armoring |
|-------------------|----------|------------------------|
| Interlocked Armor | Aluminum | 1.11 mm                |

## Electrical Characteristics

### Conductor DCR:

| Nominal Conductor DCR |
|-----------------------|
| 0.16 Ohm/1000ft       |

### Current:

| Max. Recommended Current [A]  |
|-------------------------------|
| 104 Amps per conductor @ 25°C |

### Voltage:

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

## Use

|                                    |          |
|------------------------------------|----------|
| Suitability - Burial:              | Yes      |
| Suitability - Sunlight Resistance: | Yes      |
| Max Recommended Pulling Tension:   | 2124 lbs |

## Safety

|                  |                                 |
|------------------|---------------------------------|
| UL Flammability: | VW-1 Singles, UL1685 UL Loading |
|------------------|---------------------------------|

## Temperature Range

|                       |                 |
|-----------------------|-----------------|
| Dry Temp Range:       | -40°C To +90 °C |
| Operating Temp Range: | -40°C To +90°C  |
| Wet Temp Range:       | -40°C To +90°C  |

## Mechanical Characteristics

|                             |       |
|-----------------------------|-------|
| Min Bend Radius/Minor Axis: | 16 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           |
| EU Directive Compliance:          | EU Directive 2003/11/EC (BFR)    |

## History

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