

## 27270 Multi-Conductor - 600V Type MC Metal Clad Cable



For more Information  
please call

1-800-Belden1

**General Description:**

14 AWG stranded (7x22) bare copper conductors, 14 AWG bare copper ground wire, cross-linked polyethylene insulation, aluminum interlocked armor, PVC jacket.

**Physical Characteristics (Overall)****Conductor****AWG:**

| # Conductors | AWG | Stranding | Conductor Material |
|--------------|-----|-----------|--------------------|
| 25           | 14  | 7x22      | BC - Bare Copper   |

Total Number of Conductors: 25

**Ground Wire**

Ground Wire (Y/N): Y

Ground Wire AWG: 14

Ground Wire Stranding: 7x22

Ground Wire Conductor Material: BC - Bare Copper

**Insulation****Insulation Material:**

| Insulation Material              | Wall Thickness (mm) |
|----------------------------------|---------------------|
| XLPE - Cross Linked Polyethylene | 0.762               |

**Outer Shield****Outer Shield Material:**

| Outer Shield Material |
|-----------------------|
| Unshielded            |

**Outer Jacket**

Outer Jacket over Armor (y/n): Y

**Outer Jacket over Armor**

Outer Jacket Material over Armor (y/n): PVC

Outer Jacket Wall Thickness Over Armor: .050

**Armor**

Armor Type: Interlocked

Armor Material: Aluminum

Diameter over Armor: 1.10

**Overall Cable****Overall Cabling Color Code Chart:**

| Number | Color     |
|--------|-----------|
| 1      | Black     |
| 2      | Red       |
| 3      | Blue      |
| 4      | Orange    |
| 5      | Yellow    |
| 6      | Brown     |
| 7      | Red/Black |

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|    |               |
|----|---------------|
| 8  | Blue/Black    |
| 9  | Orange/Black  |
| 10 | Yellow/Black  |
| 11 | Brown/Black   |
| 12 | Black/Red     |
| 13 | Blue/Red      |
| 14 | Orange/Red    |
| 15 | Yellow/Red    |
| 16 | Brown/Red     |
| 17 | Black/Blue    |
| 18 | Red/Blue      |
| 19 | Orange/Blue   |
| 20 | Yellow/Blue   |
| 21 | Brown/Blue    |
| 22 | Black/Orange  |
| 23 | Red/Orange    |
| 24 | Blue/Orange   |
| 25 | Yellow/Orange |

**Overall Nominal Diameter:** 30.734 mm

### Mechanical Characteristics (Overall)

|  |                |
|--|----------------|
| <b>Operating Temperature Range:</b>      | -40°C To +90°C |
| <b>Wet Temperature Range:</b>            | -40°C To +90°C |
| <b>Dry Temperature Range:</b>            | -40°C To +90°C |
| <b>Bulk Cable Weight:</b>                | 1148.890 Kg/Km |
| <b>Max. Recommended Pulling Tension:</b> | 3603.040 N     |
| <b>Min. Bend Radius/Minor Axis:</b>      | 365.760 mm     |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|  |                            |
|--|----------------------------|
| <b>NEC(UL) Specification:</b>                | MC, XHHW-2 Singles, UL1569 |
| <b>EU Directive 2011/65/EU (ROHS II):</b>    | Yes                        |
| <b>EU Directive 2000/53/EC (ELV):</b>        | Yes                        |
| <b>EU Directive 2002/95/EC (RoHS):</b>       | Yes                        |
| <b>EU RoHS Compliance Date (mm/dd/yyyy):</b> | 10/13/2005                 |
| <b>EU Directive 2002/96/EC (WEEE):</b>       | Yes                        |
| <b>EU Directive 2003/11/EC (BFR):</b>        | Yes                        |
| <b>CA Prop 65 (CJ for Wire &amp; Cable):</b> | Yes                        |
| <b>MII Order #39 (China RoHS):</b>           | Yes                        |

#### Flame Test

|                       |                   |
|-----------------------|-------------------|
| <b>UL Flame Test:</b> | UL1685 UL Loading |
|-----------------------|-------------------|

#### Suitability

|                              |     |
|------------------------------|-----|
| <b>Suitability - Burial:</b> | Yes |
| <b>Sunlight Resistance:</b>  | Yes |

#### Plenum/Non-Plenum

|                      |    |
|----------------------|----|
| <b>Plenum (Y/N):</b> | No |
|----------------------|----|

### Electrical Characteristics (Overall)

#### Nom. Conductor DC Resistance:

|                            |
|----------------------------|
| <b>DCR @ 20°C (Ohm/km)</b> |
| 8.5306                     |

## 27270 Multi-Conductor - 600V Type MC Metal Clad Cable

## Max. Operating Voltage - UL:

| Voltage   |
|-----------|
| 600 V RMS |

## Max. Recommended Current:

| Current                        |
|--------------------------------|
| 6.75 Amps per conductor @ 25°C |

## Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

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