



**Part Number:** 27281

600V Metal Clad, (5) 10 AWG (7x18) BC+Grd, XLPE/PVC, Alum Armor, MC

## Product Description

Five 10 AWG stranded (7x18) 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
	10	7x18	BC - Bare Copper	5
Ground Wire	10	7x18	BC - Bare Copper	
<b>Total Number of Conductors:</b>				5

#### Insulation:

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.03 in

#### Color Chart 1:

Number	Color
1	Black
2	Red
3	Blue
4	Orange
5	Yellow

#### Stranding:

Lay Length
PVC mm

#### Outershield 1:

Material
Unshielded

#### Outerjacket 1:

Nominal Diameter	Nominal Wall Thickness
0.79 in	0.05 mm

#### Armor:

Type of Armor	Material	Diameter over Armoring
Interlocked Armor	Aluminum	0.68 mm

## Electrical Characteristics

#### Conductor DCR:

Nominal Conductor DCR
1.02 Ohm/1000ft

#### Current:

Max. Recommended Current [A]
24 Amps per conductor @ 25°C

#### Voltage:

UL Voltage Rating
600 V RMS

## Use

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

Max Recommended Pulling Tension:	415 lbs
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## Safety

UL Flammability:	UL1685 UL Loading
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## 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:	12.8 in
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## Part Number

Plenum (Y/N):	No
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## 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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