



Part Number: 27255

600V Metal Clad, (3) 12 AWG (7x20) BC+Grd, XLPE/PVC, Alum Armor, MC

Product Description

Three 12 AWG stranded (7x20) bare copper conductors plus ground wire, cross-linked polyethylene insulation, aluminum interlocked armor, PVC jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Conductors
	12	7x20	BC - Bare Copper	3
Ground Wire	12	7x20	BC - Bare Copper	1
Conductor Count:				4
AWG Size:				12

Insulation

Material	Nominal Wall Thickness
XLPE - Cross Linked Polyethylene	0.03 in

Color Chart

Number	Color
1	Black
2	Red
3	Blue

Outer Shield Material

Material
Unshielded

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
PVC - Polyvinyl Chloride	0.698 in	0.053 in

Construction and Dimensions

Stranding

Lay Length
PVC mm

Armor

Type of Armor	Material	Diameter over Armoring
Interlocked Armor	Aluminum	0.592 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
1.65 Ohm/1000ft

Current

Max. Recommended Current [A]

20 Amps per conductor @ 25°C

Voltage

UL Voltage Rating

600V RMS

Temperature Range

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

Mechanical Characteristics

Bulk Cable Weight:	224 lbs/1000ft
Max Recommended Pulling Tension:	156 lbs
Min Bend Radius/Minor Axis:	8 in

Standards

NEC/(UL) Specification:	MC, XHHW-2 Singles
UL AWM Style:	UL1569

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU RoHS Compliance Date (yyyy-mm-dd):	2005-10-13
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Burial:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
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Part Number

Plenum (Y/N):	No
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