



**Product:** [29005](#)

600V ACIC, (6) 16 AWG (7x24) BC+Grd, XLPE/PVC/PVC, AIA Armor

### Product Description

Six 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.

### Technical Specifications

#### Product Overview

Suitable Applications:	Power and Control Applications up to 600V
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#### Construction Details

##### Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	6	16 AWG	7x24	BC - Bare Copper
Ground Wire	1	16 AWG	7x24	BC - Bare Copper

##### Insulation

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Conductor(s)	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.118 in (3.00 mm)	White and Numbered, Black and Numbered
Ground Wire	XLP, XLPO, XLPE (Thermoset)	0.030 in (0.76 mm)	0.118 in (3.00 mm)	Green

##### Outer Shield

Material
No Shield

##### Inner Jacket

Material	Nom. Thickness	Nom. Diameter	Ripcord	Color
PVC - Polyvinyl Chloride	0.047 in (1.2 mm)	0.452 in (11.5 mm)	Yes	Black

Table Notes:	Separator-CORR. MYLAR Tape
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##### Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.677 in (17.2 mm)

##### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.781 in

Overall Cable Diameter (Nominal):	0.781 in
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#### Electrical Characteristics

##### Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	4.45 Ohm/1000ft	14.4 Amps per Conductor at 30°C
Ground Wire	4.45 Ohm/1000ft (14.6 Ohm/km)	19 Amps per Conductor at 25°C

##### Voltage

Voltage Rating
600 V

## Mechanical Characteristics

### Temperature

Operating
-40°C To +90°C

### Bend Radius

Stationary Min.	Installation Min.
9.37 in (238 mm)	9.37 in

Max. Pull Tension:	115 lbs (52.2 kg)
Bulk Cable Weight:	271 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Burial
CEC / C(UL) Compliance:	HL, ACIC
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

## History

Update and Revision:	Revision Number: 0.240 Revision Date: 05-31-2024
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