Product: 29006

600V ACIC, (12) 16 AWG (7x24) BC+Grd, XLPE/PVC/PVC, AIA Armor

Product Description

Twelve 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

Construction Details

Conductor

Element	No. of Elements	Size	Stranding	Material
Conductor(s)	12	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	0.63 in (16 mm)	0.651 in (16.5 mm)	Yes	Black

Table Notes:	Separator-CORR. MYLAR Tape

Armor

Armor Type & Material	Armor Thickness	Diameter Over Armor
AIA - Aluminum Interlock Armor	0.025 in (0.64 mm)	0.876 in (22.3 mm)

Outer Jacket

Material	Nom. Thickness	Nom. Diameter
PVC - Polyvinyl Chloride	0.052 in (1.3 mm)	0.980 in

Overall Cable Diameter (Nominal):	0.980 in

Electrical Characteristics

Electricals

Element	Nom. Conductor DCR	Max. Current
Conductor(s)	4.45 Ohm/1000ft	12.6 Amps per Conductor at 30ºC
Ground Wire	4.45 Ohm/1000ft (14.6 Ohm/km)	19 Amps per Conductor at 25ºC

Voltage

Voltage Rating
600 V

Mechanical Characteristics

Temperature

Operating
-40°C To +90°C

Bend Radius

Stationary Min.	Installation Min.
11.76 in (298.7 mm)	11.76 in

Max. Pull Tension:	464.1 lbs (210.5 kg)
Bulk Cable Weight:	425 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: 0.200 Revision Date: 03-27-2024