



Deca Cables Inc.  
 150 North Murray Street  
 P.O. Box 777  
 Trenton, Ontario K8V 5W6  
 Canada

Website: www.decacables.com  
 Telephone: (613) 392-3585  
 Facsimile: (613) 392-7908  
 Email: sales@decacables.com

**ISO 9001: 2015**

**PRODUCT DATA SHEET**

**Part No: 91-1647**

CERTIFICATIONS AND CONSTRUCTION SPECIFICATIONS

<b>Description</b>	ACIC 24 Pair 16 AWG Individual Shield, Overall Shield AIA 300V		
<b>Specification Reference</b>	CSA C22.2 No. 239 Control and Instrument Cable CSA C22.2 No. 38 / UL 44 Thermoset Insulated Wires and Cables CSA C22.2 No. 174 Cables and Cable Glands for Use in Hazardous Locations		
<b>Conductor</b>	16 AWG 7 Strand Tinned Copper - Concentric		
<b>ASTM Standard</b>	ASTM B33 & B8		
<b>Conductor Diameter</b>	0.058" / 1.47 mm		
<b>Insulation Type</b>	Cross Linked Polyethylene RW90		
<b>Insulation Thickness</b>	0.025" / 0.64 mm		
<b>Pair Identification</b>	Black & White Number Coded		
<b>Pair Lay Length</b>	2" to 3"		
<b>Drain Wires</b>	20 AWG 7 Strand Tinned Copper - Concentric		
<b>Shielding Tape</b>	Aluminum/Mylar		
<b>Cable Assembly</b>	Conductors are paired, individually shielded with a drain and cabled together with an overall clear mylar tape. A drain wire and an overall aluminum/mylar shield are applied over the mylar. A PVC jacket is applied over the cabled assembly. An aluminum armour is applied over the inner jacket. An outer PVC jacket is applied over the aluminum armour.		
<b>Ripcord</b>	Polyester Ripcord included under the inner jacket		
<b>Inner Jacket</b>	0.080" / 2.03 mm (min. avg)	Flame Retardant	Low Acid Gas PVC
<b>Armour</b>	Interlocked Aluminum Armour		
<b>Outer Jacket</b>	0.059" / 1.50 mm (min. avg)	Flame Retardant	Low Acid Gas PVC
<b>Overall Cable Diameter</b>	1.695" / 43.05 mm		
<b>Jacket Print</b>	DECA ACIC 24PR 16 AWG SHIELDED XLPE 300V (-40C) 105C DRY 90C WET HLABCD SUN RES DIRECT BURIAL CSA FT4 LL83251 ---- ROHS LAG work order #, month, year, metre markings (every 1 metre)		

ELECTRICALS

<b>Voltage</b>	300V			
<b>Conductor Resistance</b>	14.3	Ohms/KM @20C	4.36	Ohms/Mft @20C
<b>Capacitance</b>	72	pF/metre	22	pF/ft
<b>Characteristic Impedance</b>	70	Ohms		

APPLICATIONS AND PHYSICAL PROPERTIES

<b>Applications</b>	Hazardous Locations: Class I, Zone 1, Zone 2, Groups A,B,C,D Class II, Zone 20 and 21 (Div 1) & Zone 22 (Div 2), Groups E,F & G, Direct Burial			
<b>Flame Test Rating</b>	CSA FT4			
<b>Temperature Rating</b>	-40C to 90C Wet/105C Dry			
<b>ROHS</b>	Compliant			
<b>Cable Weight</b>	1951	kgs/km	1311	lbs/1000ft
<b>Copper Content</b>	729	kgs/km	490	lbs/1000ft
<b>Max Pull Tension (Eye)</b>	619	kgs	1365	lbs
<b>Min Bending Radius</b>	349	mm (installed)	13.75	inches (installed)
<b>Maximum Cable Length</b>	625	metres	2051	feet
<b>Min Install Temperature</b>	-10C			