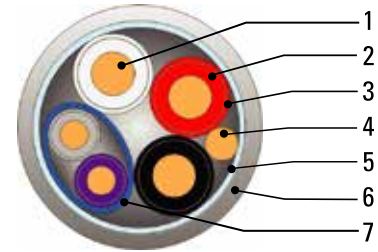


## Type ACIC

Power & Control/signal, Copper Conductors, 12 & 10 AWG - Power, 16 AWG - Jacketed Control/signal, 600 Volts / -25°C Min, 90°C Max, T90 PVC / Nylon Construction



### CONSTRUCTION:

Solid copper circuit conductors, with low temperature PVC/Nylon insulation, two additional PVC/Nylon insulated signal control conductors covered with an overall blue PVC jacket, a solid bare copper bonding conductor, all wrapped with a binder tape (bearing the print legend) and covered with aluminum interlocking armour. All conductors are rated 600 volts.

1. Copper Conductor
2. PVC Insulation
3. Nylon Jacket
4. Bonding Conductor
5. Binder Tape
6. Aluminum Interlocked Armour
7. 2/C Jacketed Control/signal Cable

### CONDUCTOR COLOURS:

- For 2 conductor constructions: black and white circuit conductors, purple and gray signal conductors covered by an overall blue PVC jacket plus a bare copper bonding conductor.
- For 3 conductor constructions: black, red and white circuit conductors, purple and gray signal conductors covered by an overall blue PVC jacket plus a bare copper bonding conductor.

### APPLICATIONS AND FEATURES:

Southwire's new ACIC-PCS DUO™ Cable is ideal for use with LED or fluorescent dimming controls in multi-residential and SMART buildings. ACIC-PCS DUO™ Cable combines power conductors along with Control/Signal applications all under one armor, saving you time and money. ACIC-PCS DUO™ cables are also designed for exposed and concealed wiring such as ventilated cable trays and other dry locations, where the maximum conductor temperature will not exceed 90°C.

Minimum recommended installation temperature: -10°C (with suitable handling procedures).

- Reduces installation costs when compared to pulling separate power and control/signal/data cables
- All cables under one armor decreases the likelihood of damage – eliminating costly callbacks for troubleshooting and repair
- Yellow Stripe Identification - for easy identification when installed with other cables

### SAMPLE PRINT LEGEND

SOUTHWIRE #P# CSA LL90458 ACIC 2/C AWG 12 CU PVC/N AND 2/C AWG 16 CU PVC/N CONTROL/SIGNAL SUN RES -25C FT1 FT4 600V ACIC --- SOUTHWIRE ACIC-PCS DUO(TM) ---



Southwire Canada Company | 5705 Cancross Court Suite 100 | Mississauga, ON L5R 3E9 | [www.southwire.ca](http://www.southwire.ca)

Copyright © 2017 Southwire Company, LLC. All Rights Reserved.



## SPECIFICATIONS:

Southwire's ACIC-PCS DUO™ cables meet or exceed the following requirements:

- CSA Certification File: LL90458 - Certified as ACIC for Control and Instrumentation
- CSA Standard C22.2 No. 239 - Control and Instrumentation Cables
- CSA 90°C Max. Insulation Temperature rating
- CSA -25°C Cold Temperature Rating
- CSA -10°C Minimum recommended cold Installation Temperature
- CSA - FT1 & FT4 Flame Test ratings
- Class - C572101 - Control Cables

## SPECIFICATIONS

Power Conductors					Control/Signal Conductors			Bonding Conductor Size (AWG)*	Approximate Diameter		Weight		Allowable Ampacity (Amps) †
Southwire Stock #	Size (AWG)	# of Conductors	Insulation Thickness		Size (AWG)*	Insulation Thickness			inches	mm	Lbs. / Mft	Kg./Km	
			inches	mm		inches	mm	90°C					
649880	14	2	0.030	0.76	16	0.015	0.38	16					15*
643481	12	2	0.030	0.76	16	0.015	0.38	14	0.580	14.73	157	234	20*
643483	12	3	0.030	0.76	16	0.015	0.38	14	0.610	15.49	187	278	20*
643479	10	2	0.030	0.76	16	0.015	0.38	12	0.598	15.19	193	287	30*

† Allowable ampacities are for general use as specified by the 2018 Canadian Electrical Code, Table 2

\* See the 2018 Canadian Electrical Code Rule 14.104(2) for details.