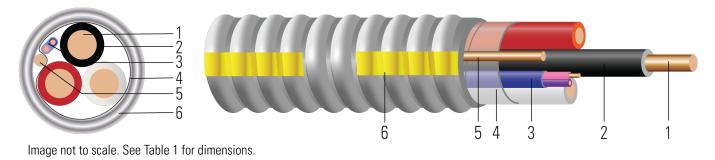
Power & Control/Signal Type ACIC CSA

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:

- 1. Conductor: Solid copper per ASTM B3
- 2. Insulation: All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type T90 Nylon
- 3. Signal: 16 AWG Copper Insulated Singles Pink, Purple. Overall light blue jacket over the signal cables
- 4. **Binder:** Polypropylene tape
- 5. Bond Wire: Solid copper
- 6. Armor: Aluminum Interlocked Armor

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
- CSA 90°C Max. Insulation Temperature rating
- CSA -25°C Cold Temperature Rating
- CSA -10°C Minimum recommended cold Installation Temperature
- Class C572101 Control Cables
- CSA Certification File: LL90458 Certified as ACIC for Control and Instrumentation

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- CSA C22.2 No. 239 Control and instrumentation cables

SAMPLE PRINT LEGEND:

SOUTHWIRE {CSA} LL90458 X/C AWG XX CU PVC/N AND AWG XX CU X/C PVC/N CONTROL -25°C FT1, FT4 SUN RES 90°C DRY 75°C WET 600V ACIC --- SOUTHWIRE ACIC-PCS DUO{TM} ---



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



UPDATED: Jan. 29, 2024, 1 a.m.UTC REVISION: 1.000.006

Allowable

Ampacity In

Raceway 90°C

Amp

25

30

30

40

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Cond. Number	Strand	Insul. Thickness	Dia. Over Armour	Approx. Weight	Min Bending Radius	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity In Raceway 90°C†
	AWG/ Kcmil		No.	mil	inch	lb/1000ft	inch	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp
649880◊	14	2	Solid	35	0.602	146	4.2	2.631	3.170	0.0327	25
643481◊	12	2	Solid	35	0.622	166	4.3	1.662	2.002	0.0308	30
643483◊	12	3	Solid	35	0.614	192	4.2	1.662	2.002	0.0308	30
643479◊	10	2	Solid	35	0.602	197	4.2	1.040	1.253	0.0307	40

All dimensions are nominal and subject to normal manufacturing tolerances

Cable marked with this symbol is a standard stock item

* Ampacities based upon 2021 Canadian Electrical Code, Part I (CEC) Table 2 and do not take into account the overcurrent protection limitations in CEC Rule 14-104(2) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding). Also, see CEC Rules 4-004 and 4-006 for additional requirements."

* Inductive impedance is based on non-ferrous conduit with one diameter spacing.

Min Inductive Stock Cond. Dia. Over DC Resistance AC Resistance Cond. Insul Approx. Strand Bending Reactance @ Number Size Number Thickness Armour Weight @ 25°C @ 75°C Radius 60Hz AWG/ kg/km Ω/km Ω/km Ω/km No. mm Kcmil 6498800 14 2 Solid 0.89 15.29 217 106.68 8.63 10.40 0.1073 6434810 0.89 247 109.22 5.45 6.57 0.1010 12 2 Solid 15.80 12 3 0.89 286 6.57 6434830 Solid 15.60 106.68 5.45 0.1010

293

Table 2 – Weights and Measurements (Metric)

Solid All dimensions are nominal and subject to normal manufacturing tolerances

Cable marked with this symbol is a standard stock item

2

6434790

10

* Ampacities based upon 2021 Canadian Electrical Code, Part I (CEC) Table 2 and do not take into account the overcurrent protection limitations in CEC Rule 14-104(2) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding). Also, see CEC Rules 4-004 and 4-006 for additional requirements."

106.68

3.41

4.11

0.1007

* Inductive impedance is based on non-ferrous conduit with one diameter spacing.

0.89

15.29



