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Commercial Cable

STANDARDS

Product CSA C22.2 N° 239

ACIC-PCS is a 90C dry / 75C wet 600V armoured cable with 2 or 3 PVC/Nylon insulated solid copper conductors + 2 PVC/Nylon insulated control wires in a separately jacketed PVC sub-assembly + a bare copper ground.

Colour coding

- 2c + 2c constructions:
 - 1 black and 1 white circuit conductors, 1 pink and 1 purple control conductors assembled in a blue jacket, 1 bare copper grounding conductor.
- 3c + 2c constructions:
 - 1 black, 1 red, and 1 white circuit conductors, 1 pink and 1 purple control conductors assembled in a blue jacket, 1 bare copper grounding conductor.

2024 CE Code references

12-106 Multi- and single-conductor cables

12-904 Conductors in raceways

12-3030 Insulated conductors in boxes, cabinets, or fittings

Why would we need it?

- Can be used when conductors are connected to different sources of voltage and are functionally associated, for example:
 - Indicating devices such as pilot lights and alarms; or
 - Control circuits of standby power systems, industrial control panels, and adjustable speed drives
- Cost effective alternative to installations in conduit.

Applications:

- For exposed and concealed wiring in wet or dry locations
- For use in ventilated, non-ventilated, and ladder-type cable trays
- For power, control and signal branch circuits for commercial, industrial, institutional and multi-residential buildings.
- LED lighting control and 0-10V dimming

Features

- 2 or 3 14-10 AWG copper power conductors
- 2 16 AWG control and signal conductors
- 600V
- 90C dry / 75C wet
- Blue-jacketed control wires assembly
- Bare copper ground
- Aluminum Interlocked Armour
- Minus 25C
- FT1 flame spread rating
- FT4 flame spread rating
- Lead Free

CHARACTERISTICS**Construction characteristics**

Conductor Material	Copper
Insulation	PVC/Nylon
Number of conductors	3

Dimensional characteristics

Approximate Net Weight	289 kg/km
Bare Ground Size (AWG)	12
Cable Diameter	16.3 mm
Conductor Diameter (mm)	2.32
Conductor size (AWG)	12 AWG
Nominal insulation thickness	0.38 mm

Electrical characteristics

Maximum operating voltage	600 V
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Usage characteristics

Maximum operating temperature	90 °C
Minimum installation temperature	-25 °C