

AC90 ISO-BX

2C12(1) AC90-ISO 150M BK/WH/12GN + 14GRD

Contact

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(-40°C) XLPE 600 V 90°C Zero Halogen

DESCRIPTION

AC90 ISO-BX is a 600V armoured cable (interlocked aluminum tape) with 2 or 3 XLPE-insulated solid copper conductors (RW90) + a green XLPE-insulated copper ground (RW90) + a bare copper bond.

Colour coding:

- **2-conductor constructions:** 1 black and 1 white circuit copper conductors, 1 green insulated copper grounding conductor, and 1 bare copper bonding conductor
- **3-conductor constructions:** 1 red, 1 black and 1 white circuit conductors, 1 green insulated copper groundeing conductor and 1 bare copper bonding conductor.

2024 CE Code, Part 1 (26th Edition) references:

- 24-104 Circuits in basic care areas
- 24-106 Bonding to ground in basic care areas
- 24-112 Circuits in intermediate and critical care areas
- 24-114 Bonding to ground in intermediate and critical care areas

Benefits:

- For use in circuits where an isolated ground is required for minimizing the effects of harmonics and providing a low impedance path to ground.
- Beneficial for special systems used for critical or sensitive equipment that need to be protected from electrical noise and interference.
- Reduces the risk of ground loops and common mode voltages.
 - Ground loops can cause errors, distortion, and damage.
 - Common-mode voltages can cause shocks, fires and interference.
- Improves performance and reliability of sensitive equipment and circuits.
- Increases the accuracy, quality, lifespan, and safety of sensitive equipment and circuits.
- Cost-effective alternative to installations in conduit.

Applications:

- For exposed and concealed wiring in dry locations
- For use in plenums
- For use in ventilated, non-ventilated, and ladder-type cable trays
- For use in branch circuits for computers, cash registers and other electronics
- For use in branch circuits for patient care areas in healthcare facilities



STANDARDS

National CSA C22.2 N° 2556;
CSA C22.2 N° 51

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Features:

- 90C conductor operating temperature
- Minus 40C
- FT4 flame spread rating
- ST1 limited smoke
- Halogen Free
- Lead Free
- RoHS compliant
- AG14

CHARACTERISTICS

Construction characteristics

Number of conductors	2
Insulation	XLPE
Conductor Material	Copper

Dimensional characteristics

Conductor size (AWG)	12
Nominal insulation thickness	0.76 mm
Bare Ground Size (AWG)	14
Cable Diameter	12.9 mm
Approximate Net Weight	191 kg/km
Number of Strands	1
Conductor Diameter (mm)	2.32
Isolated ground conductor cross-section (AWG)	12

Electrical characteristics

Maximum operating voltage	600 V
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Usage characteristics

Maximum operating temperature	90 °C
Minimum installation temperature	-40 °C