



CONTACT

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(-40°C) XLPE 600 V 90°C Zero Halogen

STANDARDS

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

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 grounding 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

Features:

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

CHARACTERISTICS

Construction characteristics	
Insulation	XLPE
Conductor Material	Copper
Dimensional characteristics	
Nominal insulation thickness	0.76 mm
Number of Strands	1
Electrical characteristics	
Maximum operating voltage	600 V
Usage characteristics	
Maximum operating temperature	90 °C
Minimum installation temperature	-40 °C

AC90 ISO-BX

Nexans Ref.	Name	Cond. Dia. (mm)	Size	# of cond .	Nom. Insul. Thick. [mm]	Iso Grd Cond (AWG)	Bare Grd (AWG)	Cable Dia. [mm]	Approx. Net Weight [kg/km]
12014812	2C14(1) AC90-ISO 150M BK/WH/12GN + 14GRD	1.84	14	2	0.76	12	14	12.5	166
12007884	2C12(1) AC90-ISO 150M BK/WH/12GN + 12GRD	2.32	12	2	0.76	12	12	13.5	206
12001820	2C12(1) AC90-ISO 150M BK/WH/12GN + 14GRD	2.32	12	2	0.76	12	14	12.9	191
12014831	3C12(1) AC90-ISO 150M BK/RD/BU12GN + 12GRD	2.32	12	3	0.76	12	12	14.2	247
12014832	3C12(1) AC90-ISO 150M BK/RD/BU12GN + 14GRD	2.32	12	3	0.76	12	14	14.1	236
12014815	2C10(1) AC90-ISO 150M BK/WH/10GN + 10GRD	2.95	10	2	0.76	10	10	14.5	288
12014814	2C10(1) AC90-ISO 150M BK/WH/10GN + 12GRD	2.95	10	2	0.76	10	12	14.3	268
12014830	3C10(1) AC90-ISO 150M BK/RD/BU10GN + 10GRD	2.95	10	3	0.76	10	10	15.7	349
12014829	3C10(1) AC90-ISO 150M BK/RD/BU10GN + 12GRD	2.95	10	3	0.76	10	12	15.5	330