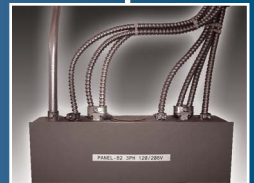
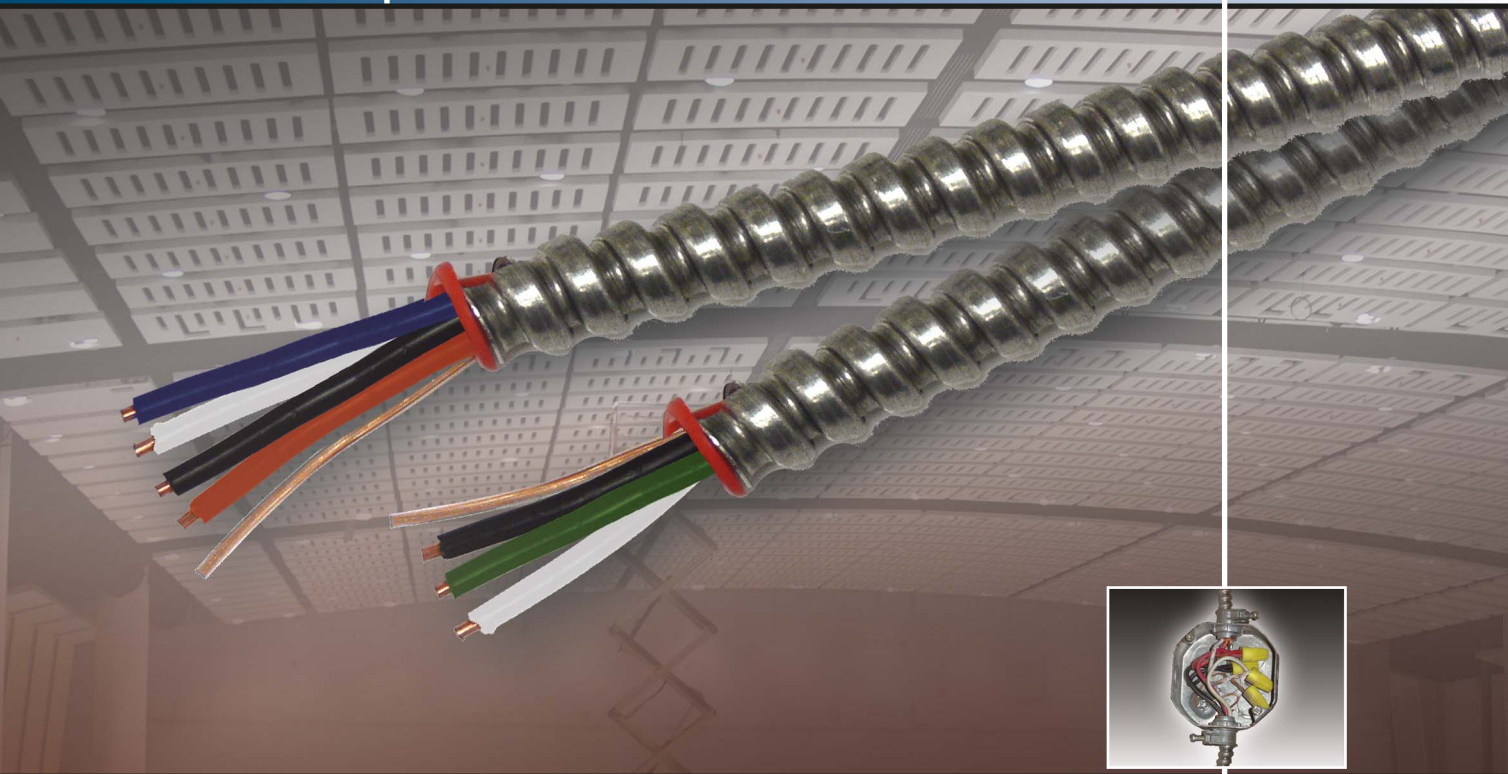




**AFC**

CABLE SYSTEMS™

# AC90 Armoured Cable Product Catalog



- Technical Specifications for CSA AC90 Armoured Cables
- Technical Specifications for CSA AC90 ISO Armoured Cables

Electrical Infrastructure Solutions™

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# CSA AC90 Armoured Cable for Canada

Columbia-MBF™ Inc., proudly introduces AFC Cable Systems AC90 and AC90 ISO aluminum armoured cable to the Canadian Market.

AC90 construction provides mechanical protection of electrical conductors, allowing for bending around corners and fishing through walls of existing construction.

AC90 solid copper conductor configurations consist of 2, 3, or 4 solid copper conductors in sizes 14, 12, or 10 AWG. AC90 stranded copper conductors consist of 3 stranded copper conductor configurations in sizes 8 or 6 AWG.

AC90 ISO configurations consist of 2 solid copper conductors in sizes 14 or 12 AWG. In addition the AC90 ISO cable assembly includes a separate green insulated solid copper grounding conductor.

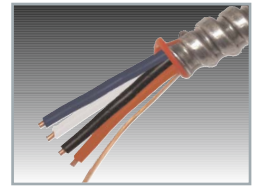
Both the AC90, and AC90 ISO conductors are insulated RW90 XLPE, and are protected inside an interlocking aluminum armour.

AFC Cable Systems Inc. originated in 1926. AFC is a leading developer, manufacturer, and supplier of electrical distribution products, and has since been providing safe electrical products that allow for fast and easy installation for a variety of applications.

AFC's cable products include AC armoured cable, flexible metallic & nonmetallic liquidtight conduit and fittings. AFC products are used in the construction and modernization of commercial, retail, institutional and industrial construction.



# CSA AC90 Armoured Cable – Technical Specifications

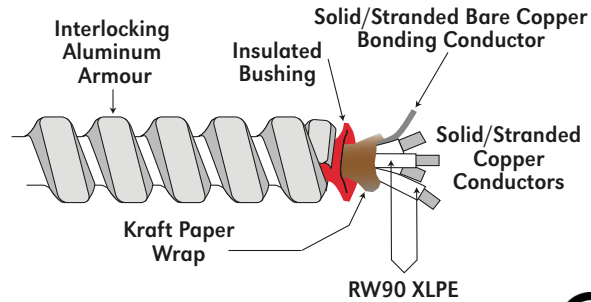


## Specification Description

Specification	CSA AC90 Cable
Armour	Interlocking Aluminum Strip
Conductors	Solid/Stranded Copper
Conductor Insulation	RW90 XLPE
Cable Assembly	Kraft Paper Wrap
Dry Temperature Rating	90°C (High) / -40°C (Low)
Bonding Conductor	Solid/Stranded Bare Copper
Maximum Voltage Rating	600V

## References & Ratings

- CSA C22.1 Canadian Electrical Code (CEC) Part I
- CSA C22.2 No.0 Canadian Electrical Code (CEC) Part II – General Requirements
- CSA C22.2 No.38 Thermoset Insulated Wires and Cables
- CSA C22.2 No.51 Armoured Cables
- CSA C22.2 No.0.3 Test Methods for Electrical Wires and Cables
- CSA C22.2 No.2556 Wire and Cable Test Methods



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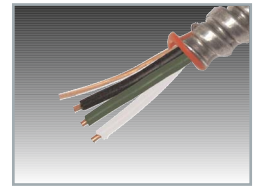
## Product Codes, Trade Sizes, Conductors, Packaging & Weights

75m Reel	Product Code		Trade Size & Colour	Solid Bonding Conductor AWG	Nominal Armour OD		Approximate Weight	
	150m Reel	300m Reel			(mm)	(in.)	(kg/km)	(lbs/mft)
2201-75-00	2201-35-00	2201-80-00	14-2 Solid (Black & White)	14	11.88	0.468	128	86
2202-75-00	2202-35-00	2202-80-00	14-3 Solid (Black, Red, & White)	14	12.45	0.490	157	106
2203-75-00	2203-35-00	2203-80-00	14-4 Solid (Black, Red, Blue, & White)	14	14.22	0.560	195	131
2204-75-00	2204-35-00	2204-80-00	12-2 Solid (Black & White)	14	12.73	0.501	159	107
2205-75-00	2205-35-00	2205-80-00	12-3 Solid (Black, Red, & White)	14	13.28	0.523	200	134
2206-75-00	2206-35-00	2206-80-00	12-4 Solid (Black, Red, Blue, & White)	14	15.39	0.606	253	170
2207-75-00	2207-35-00	2207-80-00	10-2 Solid (Black & White)	12	13.80	0.543	245	165
2208-75-00	2208-35-00	2208-80-00	10-3 Solid (Black, Red, & White)	12	14.48	0.570	306	206
2209-75-00	2209-35-00	2209-80-00	10-4 Solid (Black, Red, Blue, & White)	12	16.87	0.664	383	257
<b>Stranded Conductors</b>								
2216-75-00	2216-35-00	2216-80-00	8-3 Stranded (Black, Red, & White)	10	18.34	0.722	460	309
2220-75-00	2220-35-00	2220-80-00	6-3 Stranded (Black, Red, & White)	8*	22.10	0.870	659	443

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

\* 8 AWG Stranded Bonding Conductor

# CSA AC90 ISO Armoured Cable – Technical Specifications

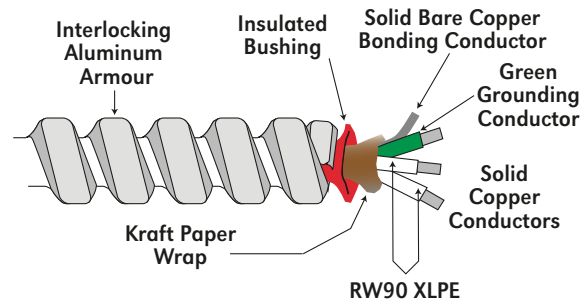


## Specification Description

Specification	CSA AC90 ISO Cable
Armour	Interlocking Aluminum Strip
Conductors	Solid Copper
Conductor Insulation	RW90 XLPE
Cable Assembly	Kraft Paper Wrap
Dry Temperature Rating	90°C (High) / -40°C (Low)
Bonding Conductor	Solid Bare Copper
Grounding Conductor	Insulated green conductor
Maximum Voltage Rating	600V

## References & Ratings

- CSA C22.1 Canadian Electrical Code (CEC) Part I
- CSA C22.2 No.0 Canadian Electrical Code (CEC) Part II – General Requirements
- CSA C22.2 No.38 Thermoset Insulated Wires and Cables
- CSA C22.2 No.51 Armoured Cables
- CSA C22.2 No.0.3 Test Methods for Electrical Wires and Cables
- CSA C22.2 No.2556 Wire and Cable Test Methods



File # LL84516

## Product Codes, Trade Sizes, Conductors, Packaging & Weights

Product Code			Trade Size & Colour	Isolated Grounding Conductor AWG	Solid Bonding Conductor AWG	Nominal Armour OD		Approximate Weight	
75m Reel	150m Reel	300m Reel				(mm)	(in.)	(kg/km)	(lbs/mft)
2202-75-80	2202-35-80	2202-80-80	14-2 Solid (Black, White)	14 (Green)	14	12.45	0.490	157	106
2205-75-80	2205-35-80	2205-80-80	12-2 Solid (Black, White)	12 (Green)	14	13.29	0.523	200	134

NOTE: All dimensions and weights are subject to normal manufacturing tolerances.

• **Columbia-MBF, Inc.**  
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**Electrical & Support Division - Canada**

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