



## Armorlite® Type AC THHN/THWN Intermediate Size Copper Conductor 120/208V Colors

8 AWG through 2 AWG THHN/THWN Insulated Singles Wrapped in Moisture-Resistant, Flame-Retardant Paper. 16 AWG Aluminum Bond Wire. UL Listed. 600 Volts. Rated VV-1. Lightweight Aluminum Interlocked Armor.

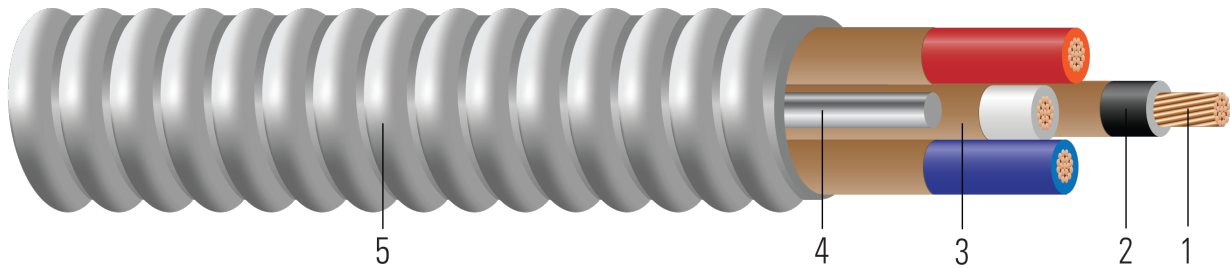


Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

1. **Conductor:** Solid copper per ASTM B3
2. **Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Bond Wire:** Solid #16 AWG aluminum
4. **Binder:** Moisture-resistant, flame-retardant paper covering
5. **Armor:** Aluminum Interlocked Armor

### APPLICATIONS AND FEATURES:

**Southwire Armorlite® Type AC Cable is suitable for use as follows:**

- Feeder power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- Dry locations only.
- Environmental air-handling spaces per NEC 300.22 (C).
- Installation in cable tray and approved raceways.
- Under raised floors for information technology equipment conductors and cables per NEC Article 645
- Conductors are individually wrapped with a moisture-resistant, flame-retardant paper covering
- Type THHN/THWN rated 90°C Dry.
- Anti-Short bushing are required

**Southwire Armorlite® Type AC Cable - meets or exceeds the following requirements:**

- UL Online Product Guide Info - Metal-Clad Cable (PJAZ) ( [www.ul.com](http://www.ul.com) )
- Federal Specification A-A59544 (formerly J-C-30B)
- NFPA 70 (National Electrical Code), Article 320
- Listed for use in UL 1, 2 and 3 Hour Through Penetration Firestop Systems

### SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- UL 83 Thermoplastic Insulated Wires and Cables
- UL 4 Armored Cables
- RoHS-2 (European Directive 2011/65/EU)





- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify “Made in the USA Only!” when ordering to ensure your project receives American made products.

**SAMPLE PRINT LEGEND:**

ALUMINUM CLAD CABLE WITH COPPER CDRS TYPE THHN OR THWN MAX VOLTAGE 600V, FOR USE IN CABLE TRAY90(D)C - WET OR DRY LOCATIONS GASOLINE & OIL RESISTANT CDRS LISTED FOR FIREWALL PENTRATION (GREEN INSULATED GROUND)

**Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Diameter Over Armor	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	inch	lbs/1000ft	lbs/1000ft
890607◇	8	2	BK,WE	0.143	19	35	0.790	101	243
890608◇	8	3	BK,RD,WE	0.143	19	35	0.828	152	314
890690◇	8	4	BK,RD,BE,WE	0.143	19	35	0.888	203	389
890691◇	6	2	BK,WE	0.179	19	35	0.862	162	326
890692◇	6	3	BK,RD,WE	0.179	19	35	0.905	243	432
890693◇	6	4	BK,RD,BE,WE	0.179	19	35	0.975	324	542
890695◇	4	3	BK,RD,WE	0.226	19	50	1.054	386	627
890696◇	4	4	BK,RD,BE,WE	0.226	19	50	1.142	515	797
553275◇	3	3	BK,RD,WE	0.254	19	50	1.115	487	748
553278◇	3	4	BK,RD,BE,WE	0.254	19	50	1.209	649	956
890698◇	2	3	BK,RD,WE	0.286	19	50	1.184	614	898
890699◇	2	4	BK,RD,BE,WE	0.286	19	50	1.286	819	1154

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

**Table 2 – Electrical and Engineering Data**

Cond. Size	Conductor Number	Min. Bend Radius	Max Pull Tension	DC Resistance at 25°C	AC Resistance at 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity Raceway 75°C	Allowable Ampacity Raceway 90°C
AWG/ Kcmil		Inches	Lbs	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
8	2	5.5	264	0.653	0.786	0.052	50	55
8	3	5.7	396	0.653	0.786	0.052	50	55
8	4	6.1	422	0.653	0.786	0.052	40	44
6	2	6.0	419	0.411	0.495	0.051	65	75
6	3	6.3	629	0.411	0.495	0.051	65	75
6	4	6.8	671	0.411	0.495	0.051	52	60
4	3	7.4	1001	0.258	0.310	0.048	85	95
4	4	8.0	1068	0.258	0.310	0.048	68	76
3	3	7.8	1262	0.205	0.246	0.047	100	115
3	4	8.5	1347	0.205	0.246	0.047	80	92
2	3	8.3	1592	0.162	0.195	0.045	115	130
2	4	9.0	1698	0.162	0.195	0.045	92	104





\* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) 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 if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

\* Ampacities have been adjusted for more than Three Current-Carrying Conductors.

