

Duraclad® Type AC-HCF Steel Armor Health Care Facility THHN/THWN Circuit Size Copper Conductor 120/208V Colors

14 AWG through 10 AWG Copper Type ACTHH (THHN Singles). Green Copper Grounding Conductor. 16 AWG Aluminum Bond Wire. UL Listed. 600 Volts. Rated VW-1. Galvanized Steel Interlocked Armor. This product is a non-stock item and subject to minimum run quantities.

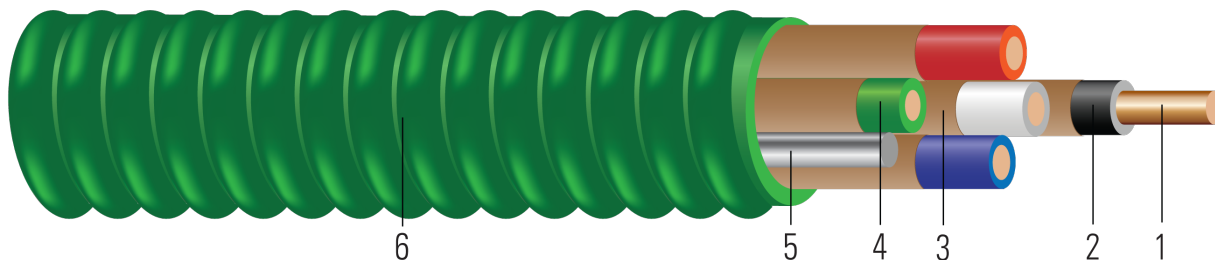


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Solid copper per ASTM B3
- Insulation:** All phases are insulated with Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
- Paper Covering:** Moisture-resistant, flame-retardant paper covering
- Green Ground:** Green insulated copper ground wire
- Bond Wire:** Solid #16 AWG aluminum
- Armor:** Galvanized Steel Interlocking Armor.

APPLICATIONS AND FEATURES:

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

- Branch and service 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)
- 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 Standard Specification for Soft or Annealed Copper Wire
- UL 83 Thermoplastic Insulated Wires and Cables



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Southwire

**CABLETECH
SUPPORT™**

Services

- UL 4 Armored Cables
- REACH/RoHS-2 (Chemical Limit) Compliant
- 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:

TYPE AC-THHN ST ARMOR COPPER THHN CONDUCTORS W/ ALUMINUM BOND WIRE MAXIMUM VOLTS 600V, FOR USE IN CABLE TRAYS-90(D) C - DRY LOCATIONS (AL.BOND WIRE)

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Conductor Number	Color	Diameter Over Conductor	Conductor Stranding	Insulation Thickness	Ground Size	Diameter Over Armor	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft
552755◇	12	2	BK/WE	0.080	Solid	20	1x12	0.512	242
552804◇	12	2	RD/WE	0.080	Solid	20	1x12	0.514	221
552805◇	12	2	BE/WE	0.080	Solid	20	1x12	0.514	221
552779◇	12	3	BK/RD/WE	0.080	Solid	20	1x12	0.560	286
552780◇	12	4	BK/RD/BE/ WE	0.080	Solid	20	1x12	0.592	315
552799◇	10	2	BK/WE	0.101	Solid	25	1x10	0.586	312
553215◇	10	3	BK/RD/WE	0.101	Solid	25	1x10	0.629	365

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

Note: Conductor number = number of phase conductors plus neutral. Does not include green ground.

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min. Bend Radius	DC Resistance at 25°C	AC Resistance at 75°C	Allowable Ampacity Raceway 60°C [†]	Allowable Ampacity Raceway 75°C [†]	Allowable Ampacity Raceway 90°C [†]
	AWG/ Kcmil	Inches	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
552755◇	12	3.5	1.662	2.002	20	25	30
552804◇	12	3.5	1.662	2.002	20	25	30
552805◇	12	3.5	1.662	2.002	20	25	30
552779◇	12	3.9	1.662	2.002	20	25	30
552780◇	12	4.1	1.662	2.002	16	20	24
552799◇	10	4.1	1.040	1.253	30	35	40
553215◇	10	4.4	1.040	1.253	30	35	40

[†] Ampacities have been adjusted for more than Three Current-Carrying Conductors

[†] 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). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

