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.

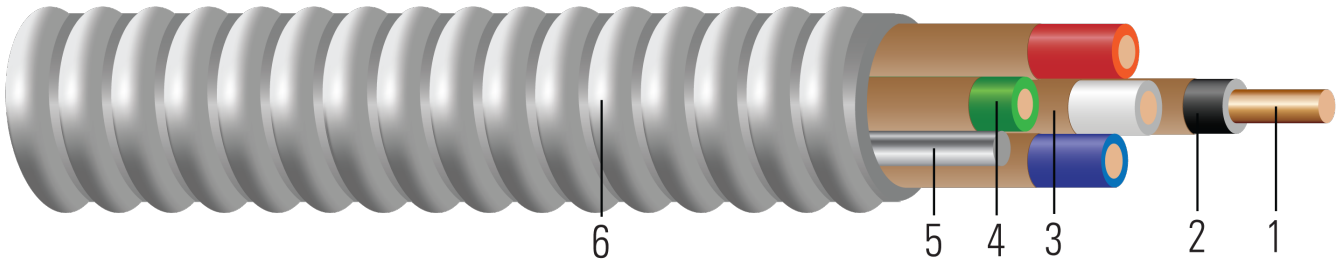

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Solid copper per ASTM B3
2. **Insulation:** Polyvinyl Chloride with Nylon Sheath Type THHN/THWN
3. **Paper Covering:** Moisture-resistant, flame-retardant paper covering
4. **Green Ground:** Green Polyvinyl Chloride with Nylon Sheath Type THHN/THWN insulated copper ground conductor
5. **Bond Wire:** Solid 16 AWG aluminum per ASTM B800
6. **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 90ºC dry
- Anti-Short bushing are required

Southwire Duraclad® 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 Soft or Annealed Copper Wire
- ASTM B800 8000 Series Aluminum Alloy Wire

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- 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:

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	Copper Weight	Overall Weight
	AWG/ Kcmil			inch		mils	No. x AWG	inch	lbs/1000ft	lbs/1000ft
12 AWG | SOLID Strands										
552755	12	2	BK,WE	0.081	SOLID	15	1x12	0.512	59	243
552804	12	2	RD,WE	0.081	SOLID	15	1x12	0.515	58	221
552805	12	2	BE,WE	0.081	SOLID	15	1x12	0.515	58	221
552779	12	3	BK,RD,WE	0.081	SOLID	15	1x12	0.561	79	287
552780	12	4	BK,RD,BE,WE	0.081	SOLID	15	1x12	0.592	96	316
10 AWG | SOLID Strands										
552799	10	2	BK,WE	0.102	SOLID	20	1x12	0.586	92	313
553215	10	3	BK,RD,WE	0.102	SOLID	20	1x12	0.629	123	363

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

Cond. Size	Conductor Number	Min. Bend Radius	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	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
12 AWG | SOLID Strands							
12	2	3.6	1.662	2.063	0.054	25	30
12	2	3.6	1.662	2.063	0.054	25	30
12	2	3.6	1.662	2.063	0.054	25	30
12	3	3.9	1.662	2.063	0.054	25	30
12	4	4.1	1.662	2.063	0.054	20	24
10 AWG | SOLID Strands							
10	2	4.1	1.04	1.291	0.05	35	40
10	3	4.5	1.04	1.291	0.05	35	40

***** 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.

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