

Duraclad[®] Type AC

Steel Interlocked Armor. 600 Volts.
Copper Power Conductors. Type ACTHH (THHN Singles).
16 AWG Aluminum Bond Wire.
Sizes AWG 14 through AWG 2. Rated VW-1.



APPLICATIONS

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

- Branch, feeder and service power distribution in commercial, industrial, institutional, and multi-residential buildings.
- Power, lighting, control, and signal circuits.
- Dry locations only.
- Fished or embedded in plaster.
- Concealed or exposed installations.
- 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 645.5(D) & 645.5(D)(2).

STANDARDS & REFERENCES

Southwire Armorlite[®] Type AC Cable meet or exceeds the following requirements

- UL 4
- UL 83
- Federal Specification A-A59544 (formerly J-C-30B)
- National Electrical Code
- Listed for use in UL 1, 2, and 3 Hour Through-Penetration Firestop Systems

CONSTRUCTION

Southwire Duraclad[®] Type AC Cable is constructed with soft-drawn copper, Type THHN insulated conductors which are individually wrapped with a moisture-resistant, flame-retardant paper covering. Steel interlocking armor is applied over the assembly. A 16 AWG aluminum bond wire is placed inside the armor, runs longitudinally, and is in intimate contact with the armor for its entire length.

Duraclad Type AC - Lightweight Steel Armor

Conductor Size (AWG)	Solid or Stranded	Aluminum Bonding Wire Size (AWG)	Steel Interlocked Armor		Ampacities‡ (Amps)			Standard Package	
			Outside Diameter (inches)	Weight (lbs./1000 ft.)	60°C	75°C	90°C	Coil (feet)	Reel (feet)
14/2	solid	16 sol	0.490	192	15	15	15	250	1000
14/3	solid	16 sol	0.520	219	15	15	15	250	1000
14/4	solid	16 sol	0.530	241	15	15	15	250	1000
12/2	solid	16 sol	0.520	217	20	20	20	250	1000
12/3	solid	16 sol	0.550	251	20	20	20	250	1000
12/4	solid	16 sol	0.575	290	20	20	20	250	1000
10/2	solid	16 sol	0.580	270	30	30	30	250	1000
10/3	solid	16 sol	0.615	314	30	30	30	250	1000
10/4	solid	16 sol	0.655	380	30	30	30	250	1000
8/2	stranded	16 sol	0.695	354	40	50	55	200	500
8/3	stranded	16 sol	0.825	605	40	50	55	200	500
8/4	stranded	16 sol	0.850	678	40	50	55	200	500
6/2	stranded	16 sol	0.880	619	55	65	75	100	500
6/3	stranded	16 sol	0.870	739	55	65	75	125	500
6/4	stranded	16 sol	0.950	888	55	65	75	100	500
4/3	stranded	16 sol	1.160	976	70	85	95	100	500
4/4	stranded	16 sol	1.140	1231	70	85	95	100	500
2/3	stranded	16 sol	1.310	1170	95	115	130	100	500
2/4	stranded	16 sol	1.632	1555	95	115	130	100	500

Note: Ampacities are based on Table 310.16 of the NEC, 2011 Edition.

‡Allowable ampacities shown are for general use as specified by the National Electrical Code, 2011 Edition, Section 310.15.

If the equipment is marked for use at higher temperatures, the conductor ampacity shall be limited to the following per NEC 110.14(C).

60°C - When terminated to equipment for circuits rated 100 amperes or less or marked for size 14 through 1 AWG conductors.

75°C - When terminated to equipment for circuits rated over 100 amperes or marked for conductors larger than size 1 AWG.

90°C - For ampacity derating purposes.

Per NEC 310.15(B)(2)(a), the ampacity of 4/C cables shall be reduced by a factor of 0.80 when the neutral is considered a current-carrying conductor.

FEATURES

- An armor assembly (combination of the interlocked armor & bonding strip) that is recognized as an equipment grounding conductor per NEC 250.118(8).
- Reduces installation costs up to 50% over pipe and wire.
- UL Classified 1, 2, and 3 hour Through Penetration Firestop Systems: W-J-3037, W-L-3110, W-L-3113, W-L-3117, W-L-3120, W-L-3121, W-L-3160, C-AJ-3115, C-AJ-3140, C-AJ-3142, C-AJ-3145, C-AJ-3173, C-AJ-3202, C-AJ-4065, C-AJ-4066, F-C-3038.
- Anit-short/insulating bushings supplied with every reel or coil.
- Cable reverse wound on reel for ease of pulling and installation. When pulling from coils, pull from inside to ensure ease of installation.



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Duraclad Type AC - Lightweight Steel Armor

COLOR CODING Standard Products

No. of Conductors	Color Sequence 120/208Y
2	Black, White
3	Black, White, Red
4	Black, White, Red, Blue

No. of Conductors	Color Sequence* 277/480Y High Voltage
2	Brown, Gray
2	Orange, Gray
2	Yellow, Gray
2	Purple, Gray
3	Brown, Yellow, Gray
3	Brown, Orange, Gray
4	Brown, Orange, Yellow, Gray
4	Brown, Yellow, Purple, Gray

*Color Sequence for 277/480Y High Voltage Color systems and other special colors are available subject to economic order quantity.

ONLINE CERTIFICATIONS & TOOLS

- UL Online Certification Directory (www.ul.com)
- UL Online Product Guide Info - Armored Cable (AWEZ) (www.ul.com)



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greenSpec™
RoHS Compliant



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