



## Cable-in-Conduit (CIC) AL 600V XHHW SCH 40



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

- Conductors: Aluminum AlumaFlex® SIMpull XHHW-2® per SPEC 10006
- Conduit: High-Density Polyethylene (HDPE)

### APPLICATIONS AND FEATURES:

Southwire's SIMpull® CIC has been utilized by end users in various applications, including the US Department of Transportation (DOT), the US Department of Energy (DOE), commercial constructions, EV infrastructure expansions, Utility grid-hardening efforts, airports, mass transit, renewables, petrochemical, agriculture, and data centers. Manufactured by continuously extruding HDPE loosely around the cable assembly with no adhesion between the conduit and the cable, thus leaving the cables free in the conduit. Lubrication is applied to the cable, allowing for cables to be pulled out and replaced if necessary.

### SPECIFICATIONS:

- ASTM D3350 Standard Specification for Polyethylene Plastics Pipe and Fittings Materials
- ASTM D3485 Standard Specification for Coilable High Density Polyethylene (HDPE) Cable in Conduit (CIC)
- ASTM F2160 Standard Specification for Solid Wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter (OD)
- UL 854 Service Entrance Cable
- UL 1990 Standard for Nonmetallic Underground Conduit with Conductors
- Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661

### SAMPLE PRINT LEGEND:

{SQFTG}

FEET (LOGO) SOUTHWIRE CABLE IN CONDUIT (UL) HDPE X.XX" SCH40 NEMA TC 7 / ASTM F2160 (NESC) {MMM/DD/YYYY} {MACH/SHFT/OP}





**Table 1 – Physical and Electrical Data**

| Stock Number | Description                         | Cable Color    | Duct Nominal Size | Duct Nominal Outside Dia. | Duct Min. Wall Thickness | Duct Nominal Inside Dia. | Duct Min. Bending Radius | Duct Max. Pull Tension | Duct Color | Approx. Cable and Duct Weight |
|--------------|-------------------------------------|----------------|-------------------|---------------------------|--------------------------|--------------------------|--------------------------|------------------------|------------|-------------------------------|
|              |                                     |                | inch              | inch                      | inch                     | inch                     | inch                     | lb                     |            | lb/1000ft                     |
| 633800       | 3 x 250 KCMIL AL XHHW - 1/0 AL XHHW | BK, BK, BK, BK | 2.50              | 2.875                     | 0.203                    | 2.875                    | 32                       | 3615                   | Black      | 1778                          |

All dimensions are nominal and subject to normal manufacturing tolerances  
 ◇ Cable marked with this symbol is a standard stock item

**Cable Specification**

| Stock Number | Cable Specification        |
|--------------|----------------------------|
| 633800       | <a href="#">SPEC 10014</a> |

**Cell Classification for HDPE Conduit**

| Property                 | Test Method | Value                 |
|--------------------------|-------------|-----------------------|
| Density                  | D4883       | 0.953 g/cc            |
| Melt Index               | D1238       | 0.25 g/10 min         |
| Flexural Modulus         | D790        | 168,000 psi           |
| Tensile Strength         | D638        | 3900 yield @ 2 in/min |
| SP-NCLS ESCR             | F2136       | >1000 hrs             |
| Hydrostatic Design Basis | D2837       | N/A                   |

- (PE436580C-BK), (PE436580E-Colors)

CIC Labor Saving Calculator

