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



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

- Conductors: Triplex 600 Volt USE-2 Underground Service Entrance per SPEC 83013
- Conduit: High-Density Polyethylene (HDPE)

## APPLICATIONS AND FEATURES:

Southwire's SIM*pull*® 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. May be installed directly buried or encased in concrete as permitted by The National Electrical Code® Article 353. For above ground applications, HDPE conduit must be encased in a minimum of 2 inches of concrete.

## 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}


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## 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 |
| 456578 | 350X2 (BK/BK) 4/0 (BK-YW) AL 600V UD 3" SCH40 RED STRIPES HDPE CIC | BK,BK,BK/YW | 3 | 3.5 | 0.216 | 3.047 | 39 | 4740 | RD | 2054 |

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.

## 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


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