



Cable-in-Conduit (CIC) AL 15kV UD Primary EPEC-40/SCH 40



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductors: 15kV AL TRXLPE Full Neutral LLDPE JKT
- 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)
- 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
- NEMA TC-7 Smooth-Wall Coilable Electrical Polyethylene Conduit

SAMPLE PRINT LEGEND:

{SQFTG} FEET (LOGO) SOUTHWIRE CABLE IN CONDUIT HDPE X" EPEC-40 NEMA TC 7 / SCH40 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 |
| 616990 | 1 x #2 AWG SOL AL 175 mil 15kV Primary UD | BK/RD Stripe | 1.50 | 1.900 | 0.145 | 1.590 | 21 | 1700 | BK/3-RD Stripes | 826 |

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

Cable Specification

| CIC Stock Number | Cable Conductor Size (AWG) | Cable Conductor Strand Count (num) | Cable Specification |
|------------------|----------------------------|------------------------------------|---------------------------------------|
| 630135 | 2 | 7 | 612538* on SPEC 81111 |
| 616990 | 2 | 7 | 491167* on SPEC 81101 |
| 630474 | 2 | 1 (solid) | 613418 on SPEC 81111 |
| 634368 | 4/0 | 19 | 610406 on SPEC 81111 |

* See SPEC for similar conductor size and strand count

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)