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



Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

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)
- 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}



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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 |
| 630918 | 1/0-19 MB CPRESS AL 15KV 220 MILS 133% EPR 105C 16X14CN POLY JACKET/RED STRIPE | BK/RD STRIPE | 2 | 2.375 | 0.154 | 2.047 | 26 | 2280 | BK/3-RD STRIPES | 1214 |

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

## 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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