

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



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductors: Aluminum AlumaFlex® SIMpull THHN/THWN-2® per SPEC 10012
- Ground: Copper SIMpull THHN/THWN-2® per SPEC 10000
- 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 1990 Standard for Nonmetallic Underground Conduit with Conductors
- CSA <u>CSA marking is available upon request</u>
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify "Made in the USA Only!" when ordering to ensure your project receives American made products.
- NEMA TC-7 Smooth-Wall Coilable Electrical Polyethylene Conduit

SAMPLE PRINT LEGEND:

{SQFTG} FEET (LOGO) SOUTHWIRE CABLE IN CONDUIT (UL) HDPE X" 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
634448	500X4 (BN/OE/YW/GY) 3E AL THHN 3" SCH40 BLACK HDPE CIC	BN, OE, YW, GY	3.00	3.500	0.216	3.042	39	4740	BK/3-RD Stripes	331

All dimensions are nominal and subject to normal manufacturing tolerances

 \Diamond 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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