



## EPEC 13.5 (SDR 13.5)



Image not to scale. See Table 1 for dimensions.

### CONSTRUCTION:

High-Density Polyethylene (HDPE)

### APPLICATIONS AND FEATURES:

Designed to house and protect wire and cable products in various underground applications for commercial constructions, EV infrastructure expansions, Utility grid-hardening efforts, airports, mass transit, renewables, petrochemical, agriculture, and data centers. May be installed directly buried or encased in concrete. 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 F2160 Standard Specification for Solid Wall High Density Polyethylene (HDPE) Conduit Based on Controlled Outside Diameter (OD)
- CSA *CSA marking is available upon request*
- 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 CONDUIT HDPE X" EPEC-13.5 NEMA TC 7 / SDR13.5 ASTM F2160 {MMM/DD/YYYY}  
{MACH/SHFT/OP}



**Table 1 – Physical and Electrical Data**

| Description          | 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                     |
| EPEC 13.5 (SDR 13.5) | 2.50              | 2.875                     | 0.213                    | 2.423                    | 32                       | 3785                   | Optional   | 784                           |

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)