

EPEC-17



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
- 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-17 NEMA TC 7 {MMM/DD/YYYY} {MACH/SHFT/OP}



Table 1 – Physical and Electrical Data

| 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 |
| 0.75 | 1.050 | 0.062 | 0.906 | 12 | 410 | Optional | 92 |
| 1.00 | 1.315 | 0.077 | 1.141 | 14 | 635 | Optional | 140 |
| 1.25 | 1.660 | 0.098 | 1.444 | 18 | 1020 | Optional | 219 |
| 1.50 | 1.900 | 0.112 | 1.656 | 21 | 1335 | Optional | 284 |
| 2.00 | 2.375 | 0.140 | 2.075 | 26 | 2090 | Optional | 437 |
| 2.50 | 2.875 | 0.169 | 2.517 | 32 | 3060 | Optional | 632 |
| 3.00 | 3.500 | 0.206 | 3.063 | 39 | 4525 | Optional | 939 |

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

