



Draka

Draka Cableteq | USA

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GENERAL PRODUCT DESCRIPTION UL CABLE IN CONDUIT HDPE Schedule 40 Duct

Submittal Date:

Scope:

Schedule 40, high-density polyethylene (HDPE) Power Duct with UL listed conductors. This product is Underwriters Laboratories (UL) listed for Preassembled Cable in Conduit and meets the requirements of UL 1990 for Nonmetallic Underground Conduit with Conductors. This product is intended for underground installation in accordance with Article 354 of the National Electrical Code (NEC).

Conductors:

May employ any single or multi-conductor cable rated for 600V - 2000V listed for use in wet locations. The listed conductors include RHH/RHW-2 and USE-2.

Duct:

The duct shall meet the requirements of ASTM D 2447 for size Schedule 40. The duct is composed of black (other colors available), high-density polyethylene meeting the requirements of ASTM D 3350, Class C, Grade PE33 and UL 1990. The wall thickness is in accordance with Table 2 of ASTM D 2447 and Table 5.2 of UL 1990. Duct also in conformance with ASTM 3485, NEMA TC-7 and in compliance with NEC article 354.100 and 354.120.

Assembly:

The single or multi-conductor cables shall be placed parallel inside the duct. Note UL 1990 Addresses cable in conduit. UL651-B only applies to empty duct.

Identification:

The surface of the duct shall be marked as follows:
DRAKA CABLETEQ USA - PA TAMAQUA POWER DUCT SCHED 40 HDPE
"size of duct" "voltage rating" **CABLE IN CONDUIT (UL)** "year of manufacture"
"sequential footage print"

Description

Nominal Duct Size (in.)	Minimum Wall Thickness (in.)	Average Duct Outside Diameter (in.)	Nominal Weight of Duct (lbs/Mft)
3/4	0.113	1.050	156
1	0.133	1.315	228
1-1/4	0.140	1.660	308
1-1/2	0.145	1.900	367
2	0.154	2.375	500
2-1/2	0.203	2.875	778
3	0.216	3.500	1015

Also note ASTM D 1248 references Polyethelene compounds as insulations for wire and cable and does not apply to ducts. All references to PE 33 define requirements of resin per ASTM D3350 for coillable poyethelene conduit.



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GENERAL PRODUCT DESCRIPTION

600 Volt, Single Conductor, XLPE
RHH OR RHW-2 OR USE-2
Insulated Wire

Submittal Date:

Scope:

Single conductor, 600 volt, RHH/RHW-2/USE-2, thermosetting cross-linked polyethylene (XLPE) insulated wire. The insulation is acceptable for use in wet or dry locations at 90 °C.

Conductor:

Class B stranded, soft drawn, bare copper per ASTM B 3 and ASTM B 8.

Insulation:

Oil, Heat and moisture resistant, cross-linked thermosetting polyethylene meeting the requirements of ICEA S-95-658 (NEMA WC 70), UL 44 for Type RHH and RHW-2 wires and UL 854 for Type USE-2. The insulation thickness is in accordance with Table 15 of UL 44.

Draka XLP insulation is resistant to many chemicals but, there is no UL, NEMA, or ICEA testing standard for across the board chemical resistance.

Color:

Identification:

The insulation surface will have the following information printed:
DRAKA CABLETEQ USA - PA TAMAQUA CABLE "size of conductor"
AWG XLPE RHH OR RHW-2 OR USE-2 600V (UL)

Dimensions

Conductor Size (AWG/kcmil)		Average Insulation Thickness (mils)	Nominal Outside Diameter (in.)	Nominal Wire Weight (lbs/Mft)
size	strand			
#14 AWG	7	45	0.170	22
#12 AWG	7	45	0.190	30
#10 AWG	7	45	0.215	44
#8 AWG	7	60	0.275	72
#6 AWG	7	60	0.310	106
#4 AWG	7	60	0.360	160
#2 AWG	7	60	0.420	243
#1/0 AWG	19	80	0.540	387
#2/0 AWG	19	80	0.585	492
#4/0 AWG	19	80	0.695	740
250 kcmil	37	95	0.770	882
350 kcmil	37	95	0.875	1213
500 kcmil	37	95	1.005	1702

