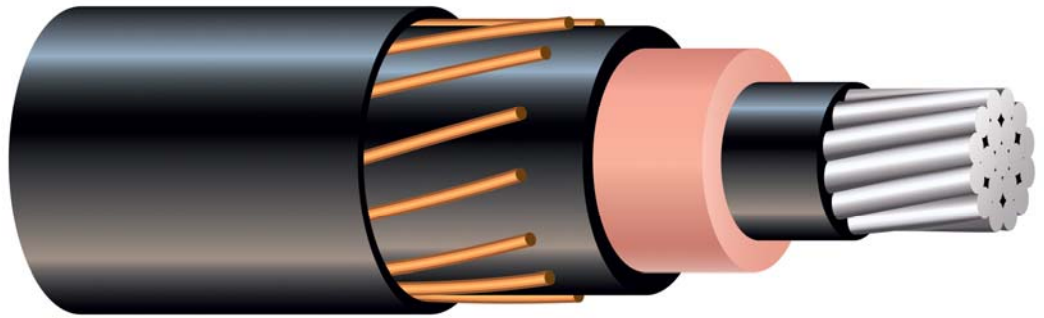


35kV Primary UD EPR Cable

Aluminum or Copper Conductor. EPR Insulation.
Bare Copper Concentric Neutrals.
Low Density Polyethylene Jacket.



APPLICATIONS

Predominantly used for primary underground distribution in conduit systems; suitable for use in wet or dry locations, direct burial, underground duct, and where exposed to sunlight. To be used at 35,000 volts or less and at conductor temperatures not to exceed 105°C for normal operation.

SPECIFICATIONS

Southwire 35kV Primary UD EPR Cable meets or exceeds the following ASTM specifications:

- B3 Soft Annealed Copper Wire
- B8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard or Soft
- B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- B231 Aluminum 1350 Conductors, Concentric-Lay-Stranded
- B609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes

Southwire 35kV Primary UD EPR Cable is manufactured to the latest edition of the following specifications, and in the order as listed:

- ANSI/ICEA S-94-649
- AEIC CS-8
- UL 1072, When Specified
- RUS 1728F-U1

CONSTRUCTION

The cable is composed of a solid or moisture blocked reverse lay, compressed stranded soft drawn copper, or a solid or moisture blocked reverse lay or unilay compressed stranded 1350-H16/26 aluminum phase conductor, covered by a semi-conducting cross-linked polyethylene strand shield, an ethylene propylene rubber primary insulation, and a semi-conducting cross-linked polyethylene insulation shield. Conductors are available with either 100% or 133% insulation levels. A concentric neutral of bare copper wires and a sunlight resistant, -40°C rated, insulating linear low density polyethylene jacket are applied over the insulation shield. The cable is identified by surface print on the jacket and with the lightning bolt symbol for supply cables indented in the jacket. Red extruded stripes available upon request. A semi-conducting polyethylene jacket is also available upon request.

35kV Primary UD EPR

Phase Conductor		Neutral		Thickness Per Cond. (mils)			Nominal Diameter (mils)				Weight 1000 feet (lbs.)	Allowable Ampacities+	
Size (AWG or kcmil)	Stranding	No. of Wires	Size (AWG)	Nominal Insul.	Insul. Shield min. Point	Approx. Jkt.	Bare Phase Cond.	Over Insul.	Over Insul. Shield	Comp. Cable	Comp. Cable	Direct Burial	In Ducts
ALUMINUM CONDUCTOR - 0.345" INSULATION - 100% INSULATION LEVEL													
1/0	Solid	16	14	345	40	50	325	1060	1160	1388	962	209*	149*
1/0	19	16	14	345	40	50	352	1085	1185	1413	987	209*	149*
2/0	19	20	14	345	40	50	395	1130	1230	1458	1099	237*	171*
3/0	19	25	14	345	40	50	443	1175	1275	1503	1228	270*	187*
4/0	19	20	12	345	40	50	498	1230	1330	1592	1432	308*	220*
250	37	16	10	345	40	80	558	1300	1400	1758	1747	341*	242*
350	37	18	14	345	40	80	661	1405	1505	1787	1589	384**	323**
500	37	25	14	345	40	80	789	1530	1630	1912	1929	463**	389**
750	61	24	12	345	55	80	968	1720	1850	2166	2596	565**	483**
1000	61	20	10	345	55	80	1117	1868	1998	2355	3187	645**	550**
1250	91	25	10	345	55	80	1250	2013	2143	2500	3736	692**	609**
1500	91	30	10	345	55	80	1370	2133	2263	2620	4244	731**	644**
COPPER CONDUCTOR - 0.345" INSULATION - 100% INSULATION LEVEL													
1/0	Solid	25	14	345	40	50	325	1060	1160	1388	1293	262*	186*
1/0	19	25	14	345	40	50	362	1095	1195	1423	1333	262*	186*
2/0	19	20	12	345	40	50	405	1140	1240	1502	1569	300*	215*
3/0	19	25	12	345	40	50	456	1190	1290	1552	1815	340*	238*
4/0	19	20	10	345	40	50	512	1245	1345	1649	2172	389*	276*
250	37	24	10	345	40	80	558	1300	1400	1758	2526	430*	305*
350	37	18	12	345	40	80	661	1405	1505	1821	2506	485**	406**
500	37	26	12	345	40	80	789	1530	1630	1946	3240	573**	480**
750	61	25	10	345	55	80	968	1720	1850	2208	4567	675**	574**
1000	61	26	9	345	55	80	1117	1868	1998	2380	5762	729**	642**
1250	91	26	8	345	55	80	1250	2013	2143	2553	7002	769**	677**
+ Ampacities shown assume use of 100% load factor, 60 Hz current, 36" burial depth, 20°C ambient temperature, 90°C conductor temperature, earth RHO 90, insulation and shield RHO 400 * Full neutral construction (Ampacities assume - single phase circuit, one cable) ** 1/3 neutral cable (Ampacities assume - three phase circuit, 3 cables triplexed, multi-point grounding per ICEA methods)													

