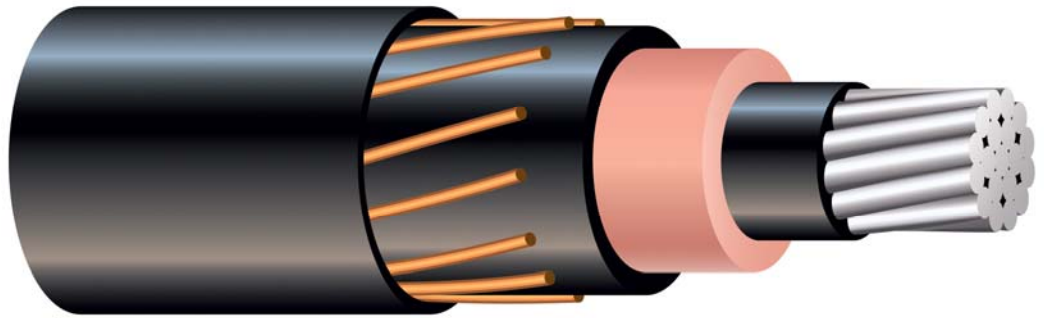


28kV Primary UD EPR Cable

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 28,000 volts or less and at conductor temperatures not to exceed 105°C for normal operation.

SPECIFICATIONS

Southwire 28kV 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 28kV 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.

28kV 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 - 0.280" INSULATION - 100% INSULATION LEVEL													
1	Solid	13	14	280	30	50	289	890	970	1198	726	189*	134*
1	19	13	14	280	30	50	322	923	1003	1231	754	189*	134*
1/0	Solid	16	14	280	30	50	325	925	1005	1233	806	214*	152*
1/0	19	16	14	280	30	50	352	953	1033	1261	830	214*	152*
2/0	19	20	14	280	30	50	395	995	1075	1303	934	243*	173*
3/0	19	25	14	280	30	50	443	1043	1123	1351	1059	278*	197*
4/0	19	20	12	280	40	50	498	1098	1198	1459	1275	318*	225*
250	37	16	10	280	40	50	558	1168	1268	1571	1520	353*	252*
350	37	18	14	280	40	50	661	1273	1373	1601	1356	387**	320**
500	37	25	14	280	40	80	789	1398	1498	1780	1738	466**	386**
750	61	24	12	280	55	80	968	1588	1718	2033	2379	567**	475**
1000	61	20	10	280	55	80	1117	1735	1865	2223	2951	648**	542**
1250	91	25	10	280	55	80	1250	1878	2008	2365	3480	689**	606**
1500	91	30	10	280	55	80	1370	1998	2128	2485	3975	729**	641**
COPPER CONDUCTOR - 0.280" INSULATION - 100% INSULATION LEVEL													
1	Solid	20	14	280	30	50	289	890	970	1198	987	235*	168*
1	19	20	14	280	30	50	322	923	1003	1231	1017	235*	168*
1/0	Solid	25	14	280	30	50	325	925	1005	1233	1137	268*	190*
1/0	19	25	14	280	30	50	362	963	1043	1271	1175	268*	190*
2/0	19	20	12	280	30	50	405	1005	1085	1347	1399	307*	220*
3/0	19	25	12	280	40	50	456	1058	1158	1419	1663	351*	250*
4/0	19	20	10	280	40	50	512	1113	1213	1516	2010	402*	287*
250	37	24	10	280	40	50	558	1168	1268	1571	2299	445*	317*
350	37	18	12	280	40	50	661	1273	1373	1634	2270	487**	403**
500	37	26	12	280	40	80	789	1398	1498	1813	3047	575**	475**
750	61	25	10	280	55	80	968	1588	1718	2075	4346	650**	562**
1000	61	26	9	280	55	80	1117	1735	1865	2248	5523	727**	639**
1250	91	26	8	280	55	80	1250	1878	2008	2418	6742	765**	672**

+ 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)

