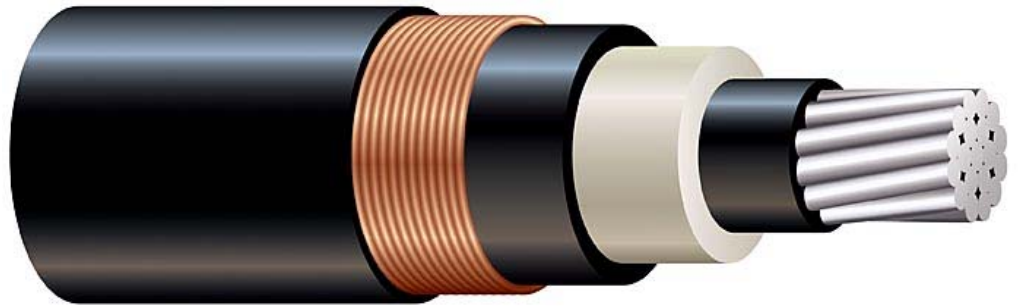


# LCT Shielded PowerGlide® MV Primary UD Cable

Aluminum or Copper Conductor. TRXLP Insulation.  
Copper Longitudinal Corrugated Tape Shield (LCT).  
Engineered PowerGlide® 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. The engineered PowerGlide® polyethylene jacket allows the cable to slide through duct with less friction, resulting in longer pulls or longer pushes with less lubricant, or in some cases, no lubricant at all. To be used at conductor temperatures not to exceed 90°C for normal operation.

## SPECIFICATIONS

Southwire LCT Shielded PowerGlide® MV Primary UD Cable meets or exceeds the following ASTM specifications:

- B-3 Soft Annealed Copper Wire.
- B-8 Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard or Soft.
- B-230 Aluminum, 1350-H19 Wire for Electrical Purposes.
- B-231 Aluminum 1350 Conductors, Concentric-Lay-Stranded.
- B-609 Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes.

Southwire LCT Shielded PowerGlide® MV Primary UD Cable is manufactured to the latest edition of the following specifications, and in case of specification conflicts, in the order listed:

- ANSI/ICEA S-97-682
- AEIC CS-8
- RUS U-1

## CONSTRUCTION

The phase conductor is concentrically stranded, compressed soft copper or 1350-H16/26 aluminum alloy. The cable is composed of the conductor, covered by a semi-conducting cross-linked polyethylene strand shield, a tree-retardant cross-linked polyethylene primary insulation, and a semi-conducting cross-linked polyethylene insulation shield. Conductors are available with either 100% or 133% insulation levels. A copper longitudinal corrugated tape shield and an insulating engineered PowerGlide® 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. A semi-conducting engineered PowerGlide® polyethylene jacket is available upon request.

# LCT Shielded PowerGlide® MV Primary UD

ALUMINUM CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Approx. Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul. (± 30 mils)	Over Insul. Shield (± 50 mils)	Over Jkt.		Direct Burial	In Duct
<b>15kV, 100% Insulation Level - 175 mil XLP Insulation</b>												
350	37	175	32	8	80	660	1063	1148	1441	947	391	320
350	37	175	32	10	80	660	1063	1148	1441	987	390	319
500	37	175	32	8	80	789	1193	1278	1571	1160	473	388
500	37	175	32	10	80	789	1193	1278	1571	1204	473	388
750	61	175	32	8	110	968	1383	1468	1827	1575	584	482
750	61	175	32	10	110	968	1383	1468	1827	1623	582	480
1000	61	175	32	8	110	1117	1530	1615	1974	1893	676	560
1000	61	175	32	10	110	1117	1530	1615	1974	1947	671	555
<b>15kV, 133% Insulation Level - 220 mil XLP Insulation</b>												
350	37	220	32	10	80	660	1155	1240	1533	1076	390	319
350	37	220	32	8	80	660	1155	1240	1533	1034	391	320
500	37	220	32	8	80	789	1285	1370	1663	1262	473	388
500	37	220	32	10	80	789	1285	1370	1663	1309	473	387
750	61	220	32	10	110	968	1475	1560	1919	1749	582	480
750	61	220	32	8	110	968	1475	1560	1919	1695	584	482
1000	61	220	40	8	110	1117	1623	1723	2082	2036	675	559
1000	61	220	40	10	110	1117	1623	1723	2082	2092	670	555
<b>25kV, 100% Insulation Level - 260 mil XLP Insulation</b>												
350	37	260	32	8	80	660	1228	1313	1606	1117	388	322
350	37	260	32	10	80	660	1228	1313	1606	1162	387	321
500	37	260	32	8	110	789	1358	1443	1802	1415	470	391
750	61	260	32	8	110	968	1548	1633	1992	1779	581	488
750	61	260	32	10	110	968	1548	1633	1992	1833	579	486
1000	61	260	40	8	110	1117	1693	1793	2152	2139	672	566
1000	61	260	40	10	110	1117	1693	1793	2152	2198	667	562
<b>28kV, 100% Insulation Level - 280 mil XLP Insulation</b>												
350	37	280	32	8	80	660	1268	1353	1646	1155	387	322
350	37	280	32	10	80	660	1268	1353	1646	1201	386	322
500	37	280	32	8	110	789	1398	1483	1842	1459	469	391
500	37	280	32	10	110	789	1398	1483	1842	1508	468	390
750	61	280	40	8	110	968	1588	1688	2047	1859	580	490
750	61	280	40	10	110	968	1588	1688	2047	1915	578	488
1000	61	280	40	8	110	1117	1735	1835	2194	2198	671	568
1000	61	280	40	10	110	1117	1735	1835	2194	2258	666	564
<b>35kV, 100% Insulation Level - 345 mil XLP Insulation</b>												
350	37	345	32	8	110	660	1403	1488	1847	1381	385	324
350	37	345	32	10	110	660	1403	1488	1847	1429	384	323
500	37	345	32	8	110	789	1530	1615	1974	1627	467	393
500	37	345	32	10	110	789	1530	1615	1974	1680	465	391
750	61	345	40	8	110	968	1720	1820	2179	2045	577	494
750	61	345	40	10	110	968	1720	1820	2179	2105	576	492

+ 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.



# LCT Shielded PowerGlide® MV Primary UD

COPPER CONDUCTORS												
Conductor		Thickness (mils)				Nominal Diameter (mils)				Approx. Weight (lbs./1000 ft.)	Allowable Ampacities+	
Size (kcmil)	# of Strands	Approx. Insul.	Insul. Shield min. point	LCT Shield	Approx. Jkt.	Bare Cond.	Over Insul. (± 30 mils)	Over Insul. Shield (± 50 mils)	Over Jkt.		Direct Burial	In Duct
<b>15kV, 100% Insulation Level - 175 mil XLP Insulation</b>												
350	37	175	32	8	80	661	1080	1165	1458	1648	497	406
350	37	175	32	10	80	661	1080	1165	1458	1679	496	405
500	37	175	32	8	80	790	1210	1295	1588	2219	598	491
500	37	175	32	10	80	790	1210	1295	1588	2251	596	488
750	61	175	32	8	110	968	1400	1485	1844	3098	728	599
750	61	175	32	10	110	968	1400	1485	1844	3134	724	595
1000	61	175	40	8	110	1117	1545	1645	2004	4057	824	682
1000	61	175	40	10	110	1117	1545	1645	2004	4097	818	676
<b>15kV, 133% Insulation Level - 220 mil XLP Insulation</b>												
350	37	220	32	8	80	661	1170	1255	1548	1737	497	406
350	37	220	32	10	80	661	1170	1255	1548	1768	496	405
500	37	220	32	8	80	790	1300	1385	1678	2315	598	490
500	37	220	32	10	80	790	1300	1385	1678	2349	595	488
750	61	220	32	8	110	968	1490	1575	1934	3276	727	598
750	61	220	32	10	110	968	1490	1575	1934	3315	723	595
1000	61	220	40	8	110	1117	1635	1735	2094	4178	823	681
1000	61	220	40	10	110	1117	1635	1735	2094	4219	817	675
<b>25kV, 100% Insulation Level - 260 mil XLP Insulation</b>												
350	37	260	32	8	80	661	1260	1345	1638	1818	494	409
350	37	260	32	10	80	661	1260	1345	1638	1851	493	408
500	37	260	32	8	110	790	1390	1475	1834	2404	594	493
500	37	260	32	10	110	790	1390	1475	1834	2440	592	491
750	61	260	40	8	110	968	1580	1680	2039	3378	724	607
750	61	260	40	10	110	968	1580	1680	2039	3418	720	603
1000	61	260	40	8	110	1117	1725	1825	2184	4288	822	691
1000	61	260	40	10	110	1117	1725	1825	2184	4332	816	686
<b>28kV, 100% Insulation Level - 280 mil XLP Insulation</b>												
350	37	280	32	8	80	661	1300	1385	1678	1858	493	410
350	37	280	32	10	80	661	1300	1385	1678	1894	492	409
500	37	280	32	8	110	790	1430	1515	1874	2451	593	494
500	37	280	32	10	110	790	1430	1515	1874	2487	591	492
750	61	280	40	8	110	968	1620	1720	2079	3431	724	610
750	61	280	40	10	110	968	1620	1720	2079	3472	719	606
1000	61	280	40	8	110	1117	1765	1865	2224	4345	821	694
1000	61	280	40	10	110	1117	1765	1865	2224	4390	816	689
<b>35kV, 100% Insulation Level - 345 mil XLP Insulation</b>												
350	37	345	32	8	110	661	1435	1520	1879	2005	490	411
350	37	345	32	10	110	661	1435	1520	1879	2041	489	411
500	37	345	40	8	110	790	1565	1665	2024	2681	590	495
500	37	345	40	10	110	790	1565	1665	2024	2721	588	493
750	61	345	40	8	110	968	1755	1855	2214	3609	722	616
750	61	345	40	10	110	968	1755	1855	2214	3653	716	611
1000	61	345	40	8	110	1117	1900	2000	2359	4537	820	700
1000	61	345	40	10	110	1117	1900	2000	2359	4585	815	696

+ 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.



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