

Delivery will be F.O.B. Destination to: Lawrenceville Electric Department
453 W. Pike St.
Lawrenceville, GA 30046

ITEM #	Approx. QTY	DESCRIPTION	MANUF. & NO.	DELIVERY A.R.O.	UNIT PRICE	TOTAL PRICE
1	30,000'	Million underground primary wire, 25KV, 260 Mil, EPR, LC shield (15, 2,000' reels)	SOUTHWIRE 554279	40 WEEKS	\$18.25	\$547,500.00
TOTAL						\$ 547,500.00

Certification of Non-Collusion in Bid Preparation *Anthony Baek* 09/16/2025
Signature Date

The City requires that all who enter into a contract for the physical performance of services with the City must satisfy O.C.G.A. § 13-10-91 and Rule 300-10-1-.02, in all manner, and such are conditions of the contract.

In compliance with the attached specifications, the undersigned offers and agrees, if this bid is accepted by the City Council within ninety (90) days of the date of bid opening, to furnish any or all of the items upon which prices are quoted, at the price set opposite each item, delivered to the designated point(s) within the time specified in the Bid Schedule.

Legal Business Name BELL ELECTRICAL SUPPLY CO., INC.

Federal Tax ID 11-2950566

Address 69-09 QUEENS BLVD, WOODSIDE, NY 11377

Representative Signature *Anthony Baek*

Printed Name ANTHONY BAEK

*Opened
9.24.25
[Signature]*

Telephone Number 718-446-5700

E-mail address ANTHONY@BELLELECTRIC.NYC



CU Compressed 25kV NLEPR Insulation 100% IL Black SIM-PVC Jacket. MV 105 - Tray Rated - Sunlight Resistant - For Direct Burial

Type MV-105 Single Conductor Copper, 260 Mils No Lead Ethylene Propylene Rubber (NL-EPR) 100% Insulation Level, Tape Shield, SIMpull Polyvinyl Chloride (PVC) Jacket, Dual Rated UL/CSA

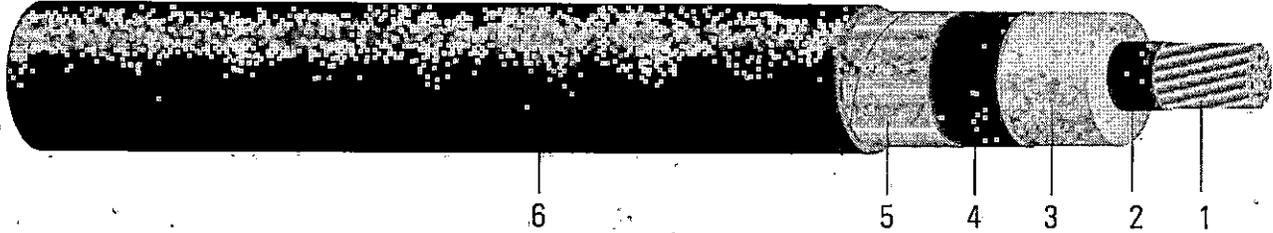


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8 (Tinned Copper per ASTM B33 optional)
2. **Conductor Shield:** Semi-conducting cross-linked copolymer
3. **Insulation:** 260 Mils No Lead Ethylene Propylene Rubber (NL-EPR) 100% Insulation Level,
4. **Insulation Shield:** Strippable semi-conducting cross-linked copolymer
5. **Copper Tape Shield:** Helically wrapped 5 mil copper tape with 25% overlap
6. **Overall Jacket:** Polyvinyl Chloride (PVC)

APPLICATIONS AND FEATURES:

Southwire's 25KV cables are suited for use in wet and dry areas; conduits, ducts, troughs, trays, direct burial when installed with a grounding conductor in close proximity that conforms to NEC section 311.36 and 250.4(A)(5), and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 105°C for normal operation, 140°C for emergency overload, and 250°C for short-circuit conditions. Rated at -35°C for cold bend when UL listed. Rated at -25°C for cold bend and cold impact and marked with "LTDD" when CSA listed or dual UL/CSA listed. PVC jacket is made with SIM technology and has a coefficient of friction COF of 0.2. Cable can be installed in conduit without the aid of lubrication. Rated for 1000 lbs./FT maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- UL 1072 Medium-Voltage Power Cables
- UL 1685 FT4 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- CSA C22.2 No.230 Tray Cables - Rated TC-ER (1/0 AWG and Larger)
- CSA C22.2 No. 2556 /-UL 2556 Cable Test Methods
- CSA C68.10 Shielded Power Cables for Commercial and Industrial Applications 5 to 46 KV
- ICEA S-93-639 (NEMA WC 74) 5-46 KV Shielded Power Cable
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test (1/0 and Larger)
- AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV (Qualification Test Requirements)



- Made in America: Compliant with both Buy American and Buy America Act (BAA) requirements per 49 U.S.C. § 5323(j) and the Federal Transit Administration Buy America requirements per 49 C.F.R. part 661

SAMPLE PRINT LEGEND:

{SQFTG_DUAL} SOUTHWIRE SIMpull® POWER CABLE {UL} XXX AWG CU 260 MILS NL-EPR 25KV 100% INS LEVEL 25%TS MV-105 SUN. RES. {NEC} PAT www.patentSW.com

Table 1 – Weights and Measurements

Stock Number	Cond. Size AWG/ Kcmil	Strand Count No. of Strands	Diameter Over Conductor Inch	Diameter Over Insulation Inch	Diameter Over Insulation Shield Inch	Jacket Thickness mil	Approx. OD Inch	Copper Weight lb/1000ft	Approx. Weight lb/1000ft	Max Pull Tension lb	Min Bending Radius Inch	Conduit Size Inch
554733	1/0	19	0.361	0.920	0.980	80	1.160	404	892	844	13.9	3.5
582006	2/0	19	0.405	0.964	1.024	80	1.204	494	1010	1064	14.4	3.5
957266	4/0	19	0.512	1.056	1.116	80	1.296	743	1318	1692	15.5	4.0
554279	250	37	0.558	1.108	1.168	80	1.348	865	1476	2000	16.1	4.0
554519	500	37	0.789	1.332	1.392	80	1.572	1653	2409	4000	18.8	4.5
555748	750	61	0.968	1.544	1.604	110	1.844	2441	3443	6000	22.1	5.5
TBA	1000	61	1.117	1.693	1.753	110	1.993	3123	4273	8000	23.9	5.5

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Conduit size based on 3 phase 40% fill-factor without ground

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Cond. Size AWG/ Kcmil	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 90°C Ω/1000ft	Capacitive Reactance @ 60Hz MΩ/1000ft	Inductive Reactance @ 60Hz Ω/1000ft	Zero Sequence Impedance Ω/1000ft	Positive Sequence Impedance Ω/1000ft	Shield-Short Circuit Current 6 Cycles Amp	Allowable Ampacity In Duct 90/105°C Amp	Allowable Ampacity In Air 90/105°C Amp
1/0	0.102	0.128	0.048	0.048	0.303 + j0.173	0.020 + j0.039	3064	200/215	260/290
2/0	0.081	0.102	0.045	0.047	0.330 + j0.209	0.020 + j0.036	3200	230/245	300/330
4/0	0.051	0.065	0.038	0.043	0.355 + j0.247	0.023 + j0.033	3532	295/315	395/445
250	0.043	0.056	0.036	0.042	0.298 + j0.159	0.020 + j0.032	3699	325/345	440/490
500	0.022	0.030	0.028	0.038	0.303 + j0.172	0.019 + j0.036	4415	465/500	680/755
750	0.014	0.023	0.024	0.037	0.303 + j0.173	0.020 + j0.039	5000	565/610	870/970
1000	0.011	0.019	0.021	0.035	0.331 + j0.202	0.027 + j0.037	5452	640/690	1040/1160

* NEC ampacities are based on:

* For Duct: Table 310.60(C)(11) Detail 1.

* For Free Air: Table 310.60(C)(3).

* Inductive impedance is based on non-ferrous conduit with one diameter spacing center-to-center.

* Sequence Impedance values are based on Rho Earth Resistivity: 100 Ohm-Meter/1000ft, Spacing: one diameter spacing center-to-center.

* Capacitive Reactance is between Phase-to-Shield.

