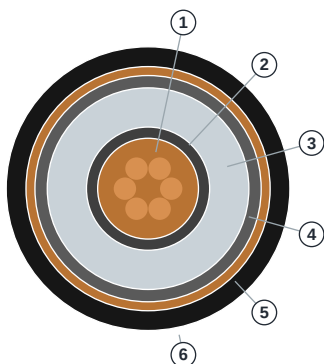




25kV Medium-Voltage Power Cable

Aluminum · Compact · NL-EPR · 133% IL · SIM-PVC



CONSTRUCTION

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| 1. Conductor | Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836 |
| 2. Conductor Shield | Semi-conducting cross-linked copolymer; A conductor separator is used for cable size larger than or equal to 500 Kcmil |
| 3. Insulation | 320 Mils No Lead Ethylene Propylene Rubber (NLEPR) 133% 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 & FEATURES

Tanner'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 & STANDARDS

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| • ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy | • ASTM B836 Compact Rounded Stranded Aluminum Conductors |
| • 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 |
| • ICEA S-97-682 Standard for Shielded Utility Cable Rated for 5 - 46kV | • 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 | |

TABLE 1 — DIMENSIONS & WEIGHTS

Tanner Part No.	Size AWG /kcmil	Count No. of Strands	Conductor inch	Insulation inch	Insulation Shield inch	Thickness mil	OD inch	Weight lb/1000ft	Weight lb/1000ft	Weight lb/1000ft	Tension lb	Radius inch	Size inch
05F-APN3S-0100	1/0	19	0.336	1.014	1.074	80	1.254	86	99	771	633	15.0	3.5
05F-APN3S-0200	2/0	12	0.376	1.054	1.114	80	1.294	22	125	829	798	15.5	4.0
05F-APN3S-0300	3/0	19	0.422	1.100	1.160	80	1.340	23	158	854	1006	16.0	4.0
05F-APN3S-0400	4/0	19	0.474	1.153	1.213	80	1.393	96	199	984	1269	16.7	4.0
05F-APN3S-250M	250	35	0.520	1.206	1.266	80	1.446	25	235	1018	1500	17.3	4.0
05F-APN3S-350M	350	35	0.615	1.301	1.361	80	1.541	27	329	1186	2100	18.4	4.5
05F-APN3S-500M	500	34	0.735	1.444	1.504	110	1.744	118	471	1593	3000	20.9	5.0
05F-APN3S-750M	750	53	0.908	1.616	1.676	110	1.926	131	706	2005	4500	23.1	5.5
05F-APN3S-1000M	1000	58	1.060	1.756	1.816	110	2.056	146	941	2285	6000	24.6	6.0
05F-APN3S-1250M	1250	91	1.250	1.954	2.014	110	2.254	161	1173	2814	7500	27.0	8.0