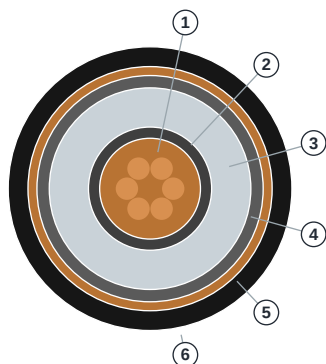




35kV Medium-Voltage Power Cable

Aluminum · Compact · TRXLPE · 133% IL · SIM-PVC



CONSTRUCTION

- | | |
|------------------------------|--|
| 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 | 420 Mils Tree Retardant Cross-Linked Polyethylene (TRXLPE) 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 35KV cables are suited for use in wet and dry areas, conduits, ducts, troughs, 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. 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

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- UL 1072 Medium-Voltage Power Cables
- ICEA S-97-682 Standard for Shielded Utility Cable Rated for 5 - 46kV
- Requirements)
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- ICEA S-93-639 (NEMA WC 74) 5-46 KV Shielded Power Cable
- AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV (Qualification Test
- 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
05G-APX3S-0100	1/0	19	0.336	1.214	1.274	80	1.454	25	99	957	633	17.4	4.0
05G-APX3S-0200	2/0	19	0.376	1.254	1.314	80	1.494	26	125	1020	798	17.9	4.5
05G-APX3S-0300	3/0	19	0.422	1.300	1.360	80	1.540	27	158	1096	1006	18.4	4.5
05G-APX3S-0400	4/0	19	0.474	1.352	1.412	80	1.592	28	199	1186	1269	19.1	4.5
05G-APX3S-250M	250	35	0.520	1.406	1.466	80	1.646	29	235	1276	1500	19.7	5.0
05G-APX3S-350M	350	35	0.615	1.501	1.561	110	1.801	31	329	1565	2100	21.6	5.0
05G-APX3S-500M	500	35	0.735	1.621	1.681	110	1.921	33	471	1828	3000	23.0	5.5
05G-APX3S-600M	600	58	0.812	1.708	1.768	110	2.008	142	565	2123	3600	24.0	6.0
05G-APX3S-750M	750	58	0.908	1.804	1.864	110	2.104	145	706	2131	4500	25.2	6.0
05G-APX3S-1000M	1000	58	1.060	1.956	2.016	110	2.256	40	941	2644	6000	27.0	
05G-APX3S-1250M	1250	58	1.250	2.150	2.210	110	2.450	117	1173	3213	7500	29.4	