



• Application

15kV cables are suitable for light load conditions, cost-sensitive projects, residential and light commercial installations, underground distribution systems, wet and dry locations, industrial and commercial facilities, and substations. Ideal for areas where neutral current is significantly lower than phase current.

• Performance

Operating Voltage: 15kV
 Temperature Rating:
 Normal Operation: Up to 90°C
 Emergency Overload: Up to 130°C
 Short Circuit Conditions: Up to 250°C
 Ambient Temperature Range: Suitable for environments ranging from -40°C to +90°C
 Mechanical Performance:
 Maximum Sidewall Pressure: 1000 lbs./FT
 Bending Radius: 12 times the cable diameter for fixed installations, 15 times for occasional flexing

• Construction

Conductor: Aluminum, Class B compressed stranded per ASTM standards
 Conductor Shield: Semi-conducting cross-linked copolymer
 Insulation: 175 Mills Tree Retardant Cross-Linked Polyethylene (TR-XLPE) with 100% insulation level
 Insulation Shield: Strippable semi-conducting cross-linked copolymer
 Concentric Neutral: One third neutral, helically applied soft drawn bare aluminum
 Overall Jacket: Linear Low-Density Polyethylene (LLDPE), black with red extruded stripes

• Specification

-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
 -ICEA S-94-649 Standard for Concentric Neutral Cables Rated 5 - 46kV
 -AIEC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV (Qualification Test Requirements)
 -Rural Utility Standard RUS 1728F-U1 or 1728.204 (Electric standards and specifications for materials and construction)
 -UL 1072 Listed as MV 90 When Specified
 -Optional CSA 68.5: -40°C and MV 90°C optional marking available upon request

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction. CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Weights and Measurements											
Conductor Size	Conductor Overall Dia.	Insulation Overall Dia.	Insul. Thickness	Insulation Shield Overall Dia.	Concentric Neutral	Max. D.C. Resistance 25°C	Jacket Thickness	Approx. Overall Dia.	Approx. Weight	Min. Bending Radius	Max. Pull Tension
AWG/kcmil	inch	inch	mils	inch	No. x AWG	Ω/1000ft	mils	inch	lb/1000ft	inch	lb
2 (Solid)	0.257	0.645	175	0.735	6x14	0.438	50	0.963	566	7.7	530
2 (7)	0.282	0.663	175	0.753	6x14	0.438	50	0.981	569	7.8	530
2 (7)	0.282	0.663	175	0.753	6x14	0.438	50	0.981	571	7.8	530
1 (Solid)	0.289	0.677	175	0.767	7x14	0.375	50	0.995	649	8	669
1 (19)	0.322	0.71	175	0.8	7x14	0.375	50	1.028	665	8.2	669
1/0 (Solid)	0.324	0.712	175	0.802	9x14	0.292	50	1.03	759	8.2	844
1/0 (19)	0.361	0.742	175	0.832	9x14	0.292	50	1.06	767	8.5	844
2/0 (19)	0.405	0.786	175	0.876	11x14	0.239	50	1.104	898	8.8	1064
3/0 (19)	0.456	0.844	175	0.934	14x14	0.187	50	1.162	1085	9.3	1342
4/0 (19)	0.512	0.892	175	0.982	18x14	0.146	50	1.21	1278	9.7	1692
4/0 (19)	0.512	0.892	175	0.982	11x12	0.15	50	1.243	1288	9.9	1692
250 (37)	0.558	0.948	175	1.038	13x12	0.127	50	1.299	1490	10.4	2000
350 (37)	0.661	1.051	175	1.161	18x12	0.092	50	1.422	1953	11.4	2800
350 (37)	0.661	1.051	175	1.161	18x12	0.092	50	1.422	1972	11.4	2800
500 (37)	0.789	1.179	175	1.289	26x12	0.063	50	1.55	2663	12.4	4000
500 (37)	0.789	1.179	175	1.289	26x12	0.063	50	1.55	2663	12.4	4000
500 (37)	0.789	1.179	175	1.289	17x10	0.061	50	1.592	2724	12.7	4000
750 (61)	0.968	1.368	175	1.478	25x10	0.041	75	1.835	3928	14.7	6000
1000 (61)	1.117	1.517	175	1.627	26x9	0.031	75	2.009	5071	16.1	8000
1000 (61)	1.117	1.517	175	1.627	26x9	0.031	75	2.009	5070	16.1	8000
1000 (61)	1.117	1.517	175	1.627	21x8	0.031	75	2.038	5393	16.3	8000

● Technical Parameters

Conductor Size	Electrical and Engineering Data										Allowable Ampacity Directly Buried 90°C
	D.C. Resistance @ 25°C	A.C. Resistance @ 90°C	Capacities Reactance @ 60Hz	Inductive Reactance @ 60Hz	Charging Current	Dielectric Loss	Zero Sequence Impedance	Positive Sequence Impedance	Short Circuit Current @ 30 Cycle	Allowable Ampacity in Duct 90°C	
AWG/kcmil	Ω/1000ft	Ω/1000ft	MΩ/1000ft	Ω/1000ft	A/1000ft	W/1000ft	Ω/1000ft	Ω/1000ft	A	A	A
2 (Solid)	0.162	0.204	0.062	0.052	0.08	0.69	0.258+j0.772	0.204+j0.051	2092	160	195
2 (7)	0.162	0.204	0.058	0.05	0.085	0.74	0.258+j0.771	0.204+j0.052	2092	160	195
2 (7)	0.162	0.204	0.058	0.05	0.085	0.74	0.258+j0.771	0.204+j0.052	2092	160	195
1 (Solid)	0.128	0.162	0.057	0.05	0.086	0.74	0.216+j0.767	0.162+j0.048	2441	180	220
1 (19)	0.128	0.162	0.053	0.048	0.093	0.81	0.216+j0.765	0.162+j0.049	2441	180	220
1/0 (Solid)	0.102	0.128	0.053	0.048	0.093	0.81	0.182+j0.762	0.128+j0.046	3138	200	250
1/0 (19)	0.102	0.128	0.049	0.047	0.101	0.87	0.182+j0.761	0.128+j0.047	3138	200	250
2/0 (19)	0.081	0.102	0.045	0.045	0.109	0.94	0.156+j0.756	0.102+j0.045	3836	230	285
3/0 (19)	0.064	0.081	0.041	0.043	0.119	1.03	0.135+j0.752	0.081+j0.044	4882	260	320
4/0 (19)	0.051	0.065	0.038	0.042	0.13	1.13	0.119+j0.747	0.065+j0.042	6277	300	360
4/0 (19)	0.051	0.065	0.038	0.042	0.13	1.13	0.119+j0.745	0.065+j0.043	6094	300	360
250 (37)	0.043	0.056	0.036	0.041	0.137	1.19	0.111+j0.741	0.056+j0.041	7203	325	
350 (37)	0.031	0.041	0.031	0.039	0.156	1.35	0.095+j0.733	0.041+j0.040	9973	390	460
350 (37)	0.031	0.041	0.031	0.039	0.156	1.35	0.095+j0.733	0.041+j0.040	9973	390	460
500 (37)	0.022	0.03	0.027	0.037	0.18	1.56	0.084+j0.725	0.030+j0.037	14406	455	525
500 (37)	0.022	0.03	0.027	0.037	0.18	1.56	0.084+j0.725	0.030+j0.037	14406	455	525
500 (37)	0.022	0.03	0.027	0.038	0.18	1.56	0.084+j0.724	0.030+j0.038	14973	455	525
750 (61)	0.014	0.023	0.023	0.036	0.21	1.82	0.077+j0.713	0.023+j0.036	22019	545	580
1000 (61)	0.011	0.019	0.021	0.035	0.237	2.05	0.073+j0.705	0.019+j0.035	28878		
1000 (61)	0.011	0.019	0.021	0.035	0.237	2.05	0.073+j0.705	0.019+j0.035	28878		
1000 (61)	0.011	0.019	0.021	0.036	0.237	2.05	0.073+j0.704	0.019+j0.036	29419		

● Technical Parameters

Weights and Measurements (Metric)											
Conductor Size	Conductor Overall Dia.	Insulation Overall Dia.	Insul. Thickness	Insulation Shield Overall Dia.	Concentric Neutral	Max. D.C. Resistance 25°C	Jacket Thickness	Approx. Overall Dia.	Approx. Weight	Min. Bending Radius	Max. Pull Tension
AWG/kcmil	mm	mm	mm	mm	No. x AWG	Ω/km	mm	mm	kg/km	mm	N
2 (Solid)	6.53	16.38	4.44	18.67	6x14	1.44	1.27	24.46	842	195.58	2359
2 (7)	7.16	16.84	4.44	19.13	6x14	1.44	1.27	24.92	847	198.12	2359
2 (7)	7.16	16.84	4.44	19.13	6x14	1.44	1.27	24.92	850	198.12	2359
1 (Solid)	7.34	17.2	4.44	19.48	7x14	1.23	1.27	25.27	966	203.2	2977
1 (19)	8.18	18.03	4.44	20.32	7x14	1.23	1.27	26.11	990	208.28	2977
1/0 (Solid)	8.23	18.08	4.44	20.37	9x14	0.96	1.27	26.16	1130	208.28	3756
1/0 (19)	9.17	18.85	4.44	21.13	9x14	0.96	1.27	26.92	1141	215.9	3756
2/0 (19)	10.29	19.96	4.44	22.25	11x14	0.78	1.27	28.04	1336	223.52	4735
3/0 (19)	11.58	21.44	4.44	23.72	14x14	0.61	1.27	29.51	1615	236.22	5972
4/0 (19)	13	22.66	4.44	24.94	18x14	0.48	1.27	30.73	1902	246.38	7529
4/0 (19)	13	22.66	4.44	24.94	11x12	0.49	1.27	31.57	1917	251.46	7529
250 (37)	14.17	24.08	4.44	26.37	13x12	0.42	1.27	32.99	2217	264.16	8900
350 (37)	16.79	26.7	4.44	29.49	18x12	0.3	1.27	36.12	2906	289.56	12460
350 (37)	16.79	26.7	4.44	29.49	18x12	0.3	1.27	36.12	2935	289.56	12460
500 (37)	20.04	29.95	4.44	32.74	26x12	0.21	1.27	39.37	3963	314.96	17800
500 (37)	20.04	29.95	4.44	32.74	26x12	0.21	1.27	39.37	3963	314.96	17800
500 (37)	20.04	29.95	4.44	32.74	17x10	0.2	1.27	40.44	4054	322.58	17800
750 (61)	24.59	34.75	4.44	37.54	25x10	0.13	1.91	46.61	5846	373.38	26700
1000 (61)	28.37	38.53	4.44	41.33	26x9	0.1	1.91	51.03	7546	408.94	35600
1000 (61)	28.37	38.53	4.44	41.33	26x9	0.1	1.91	51.03	7545	408.94	35600
1000 (61)	28.37	38.53	4.44	41.33	21x8	0.1	1.91	51.77	8026	414.02	35600

• Technical Parameters

Conductor Size	Electrical and Engineering Data (Metric)										Allowable Ampacity Directly Buried 90°C
	D.C. Resistance @ 25°C	A.C. Resistance @ 90°C	Capacities Reactance @ 60Hz	Inductive Reactance @ 60Hz	Charging Current	Dielectric Loss	Zero Sequence Impedance	Positive Sequence Impedance	Short Circuit Current @ 30 Cycle	Allowable Ampacity in Duct 90°C	
AWG/kcmil	Ω/km	Ω/km	MΩ/km	Ω/km	A/km	W/km	Ω/1000ft	Ω/1000ft	A	A	A
2 (Solid)	0.5315	0.67	0.0189	0.1706	0.262	2.2638	0.258+j0.772	0.204+j0.051	2092	160	195
2 (7)	0.5315	0.67	0.0177	0.164	0.279	2.4278	0.258+j0.771	0.204+j0.052	2092	160	195
2 (7)	0.5315	0.67	0.0177	0.164	0.279	2.4278	0.258+j0.771	0.204+j0.052	2092	160	195
1 (Solid)	0.4199	0.53	0.0174	0.164	0.282	2.4278	0.216+j0.767	0.162+j0.048	2441	180	220
1 (19)	0.4199	0.53	0.0162	0.1575	0.305	2.6575	0.216+j0.765	0.162+j0.049	2441	180	220
1/0 (Solid)	0.3346	0.42	0.0162	0.1575	0.305	2.6575	0.182+j0.762	0.128+j0.046	3138	200	250
1/0 (19)	0.3346	0.42	0.0149	0.1542	0.331	2.8543	0.182+j0.761	0.128+j0.047	3138	200	250
2/0 (19)	0.2657	0.33	0.0137	0.1476	0.358	3.084	0.156+j0.756	0.102+j0.045	3836	230	285
3/0 (19)	0.21	0.27	0.0125	0.1411	0.39	3.3793	0.135+j0.752	0.081+j0.044	4882	260	320
4/0 (19)	0.1673	0.21	0.0116	0.1378	0.427	3.7073	0.119+j0.747	0.065+j0.042	6277	300	360
4/0 (19)	0.1673	0.21	0.0116	0.1378	0.427	3.7073	0.119+j0.745	0.065+j0.043	6094	300	360
250 (37)	0.1411	0.18	0.011	0.1345	0.449	3.9042	0.111+j0.741	0.056+j0.041	7203	325	
350 (37)	0.1017	0.13	0.0094	0.128	0.512	4.4291	0.095+j0.733	0.041+j0.040	9973	390	460
350 (37)	0.1017	0.13	0.0094	0.128	0.512	4.4291	0.095+j0.733	0.041+j0.040	9973	390	460
500 (37)	0.0722	0.1	0.0082	0.1214	0.591	5.1181	0.084+j0.725	0.030+j0.037	14406	455	525
500 (37)	0.0722	0.1	0.0082	0.1214	0.591	5.1181	0.084+j0.725	0.030+j0.037	14406	455	525
500 (37)	0.0722	0.1	0.0082	0.1247	0.591	5.1181	0.084+j0.724	0.030+j0.038	14973	455	525
750 (61)	0.0459	0.08	0.007	0.1181	0.689	5.9711	0.077+j0.713	0.023+j0.036	22019	545	580
1000 (61)	0.0361	0.06	0.0064	0.1148	0.778	6.7257	0.073+j0.705	0.019+j0.035	28878		
1000 (61)	0.0361	0.06	0.0064	0.1148	0.778	6.7257	0.073+j0.705	0.019+j0.035	28878		
1000 (61)	0.0361	0.06	0.0064	0.1181	0.778	6.7257	0.073+j0.704	0.019+j0.036	29419		