



• 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 B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
 -ASTM B609 Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
 -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)
 -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
 -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	423	7.7	398
2 (7)	0.282	0.663	175	0.753	6x14	0.438	50	0.981	428	7.8	398
1 (Solid)	0.289	0.677	175	0.767	6x14	0.438	50	0.995	455	8	502
1 (19)	0.322	0.71	175	0.8	6x14	0.438	50	1.028	470	8.2	502
1/0 (Solid)	0.324	0.712	175	0.802	6x14	0.438	50	1.03	491	8.2	633
1/0 (19)	0.351	0.732	175	0.822	6x14	0.438	50	1.05	499	8.4	633
2/0 (19)	0.395	0.775	175	0.865	7x14	0.375	50	1.093	558	8.7	798
3/0 (19)	0.443	0.831	175	0.921	9x14	0.292	50	1.149	647	9.2	1006
4/0 (19)	0.498	0.878	175	0.968	11x14	0.239	50	1.196	732	9.6	1269
4/0 (19)	0.498	0.878	175	0.968	11x14	0.239	50	1.196	732	9.6	1269
250 (37)	0.558	0.954	175	1.044	13x14	0.202	50	1.272	840	10.2	1500
350 (37)	0.661	1.051	175	1.161	18x14	0.146	50	1.389	1065	11.1	2100
350 (37)	0.661	1.051	175	1.161	18x14	0.146	50	1.389	1064	11.1	2100
500 (37)	0.789	1.179	175	1.289	16x12	0.103	50	1.55	1399	12.4	3000
750 (61)	0.968	1.368	175	1.478	24x12	0.069	75	1.793	1970	14.3	4500
750 (61)	0.968	1.368	175	1.478	24x12	0.069	75	1.793	1970	14.3	4500
1000 (61)	1.117	1.517	175	1.627	20x10	0.052	75	1.984	2506	15.9	6000

All dimensions are nominal and subject to normal manufacturing tolerances

-Cable marked with this symbol is a standard stock item

-Pulling tension based on pulling eye directly connected to conductor

-Hi-Dri-Plus® - Water Blocking Powder

-Solid black jacket

● 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	120	150
2 (7)	0.266	0.336	0.058	0.05	0.085	0.74	0.390+j0.771	0.336+j0.052	2092	120	150
1 (Solid)	0.129	0.162	0.057	0.05	0.086	0.74	0.216+j0.767	0.162+j0.048	2092	140	175
1 (19)	0.211	0.266	0.053	0.048	0.093	0.81	0.320+j0.765	0.266+j0.049	2092	140	175
1/0 (Solid)	0.102	0.128	0.053	0.048	0.093	0.81	0.182+j0.762	0.128+j0.046	2092	155	195
1/0 (19)	0.167	0.211	0.05	0.047	0.099	0.86	0.265+j0.761	0.211+j0.047	2092	155	195
2/0 (19)	0.133	0.167	0.046	0.045	0.107	0.93	0.221+j0.757	0.167+j0.045	2441	180	220
3/0 (19)	0.105	0.132	0.042	0.044	0.116	1	0.186+j0.752	0.132+j0.043	3138	200	250
4/0 (19)	0.084	0.105	0.039	0.042	0.127	1.1	0.159+j0.747	0.105+j0.042	3836	235	285
4/0 (19)	0.084	0.105	0.039	0.042	0.127	1.1	0.159+j0.747	0.105+j0.042	3836	235	285
250 (37)	0.071	0.09	0.036	0.041	0.137	1.19	0.144+j0.743	0.090+j0.041	4533	256	309
350 (37)	0.05	0.065	0.031	0.039	0.156	1.35	0.119+j0.734	0.065+j0.039	6277	310	370
350 (37)	0.05	0.065	0.031	0.039	0.156	1.35	0.119+j0.734	0.065+j0.039	6277	310	370
500 (37)	0.035	0.046	0.027	0.037	0.18	1.56	0.100+j0.725	0.046+j0.037	8865	370	445
750 (61)	0.024	0.033	0.023	0.036	0.21	1.82	0.087+j0.714	0.033+j0.036	13298	460	525
750 (61)	0.024	0.033	0.023	0.036	0.21	1.82	0.087+j0.714	0.033+j0.036	13298	460	525
1000 (61)	0.018	0.026	0.021	0.035	0.237	2.05	0.080+j0.705	0.026+j0.035	17615	520	575

-Ampacities for Direct Buried are based on ICEA P-117-734-2016 Single-Conductor Solid Dielectric 15-35kV. Single Circuit Flat Direct Buried Figure 3

-Ampacities for Duct are based on ICEA P-117-734-2016 for Single-Conductor Solid Dielectric 15-35kV. Single Circuit Trefoil Conduit Figure 7.

-Sequence Impedance values are based on Rho Earth Resistivity: 100 Ohm-Meter/1000ft.

● 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	inch	inch	mils	inch	No. x AWG	Ω/1000ft	mils	inch	lb/1000ft	inch	N
2 (Solid)	6.53	16.38	4.44	18.67	6x14	1.44	1.27	24.46	629	195.58	1771
2 (7)	7.16	16.84	4.44	19.13	6x14	1.44	1.27	24.92	637	198.12	1771
1 (Solid)	7.34	17.2	4.44	19.48	6x14	1.44	1.27	25.27	677	203.2	2234
1 (19)	8.18	18.03	4.44	20.32	6x14	1.44	1.27	26.11	699	208.28	2234
1/0 (Solid)	8.23	18.08	4.44	20.37	6x14	1.44	1.27	26.16	731	208.28	2817
1/0 (19)	8.92	18.59	4.44	20.88	6x14	1.44	1.27	26.67	743	213.36	2817
2/0 (19)	10.03	19.69	4.44	21.97	7x14	1.23	1.27	27.76	830	220.98	3551
3/0 (19)	11.25	21.11	4.44	23.39	9x14	0.96	1.27	29.18	963	233.68	4477
4/0 (19)	12.65	22.3	4.44	24.59	11x14	0.78	1.27	30.38	1089	243.84	5647
4/0 (19)	12.65	22.3	4.44	24.59	11x14	0.78	1.27	30.38	1089	243.84	5647
250 (37)	14.17	24.23	4.44	26.52	13x14	0.66	1.27	32.31	1250	259.08	6675
350 (37)	16.79	26.7	4.44	29.49	18x14	0.48	1.27	35.28	1585	281.94	9345
350 (37)	16.79	26.7	4.44	29.49	18x14	0.48	1.27	35.28	1583	281.94	9345
500 (37)	20.04	29.95	4.44	32.74	16x12	0.34	1.27	39.37	2082	314.96	13350
750 (61)	24.59	34.75	4.44	37.54	24x12	0.23	1.91	45.54	2932	363.22	20025
750 (61)	24.59	34.75	4.44	37.54	24x12	0.23	1.91	45.54	2932	363.22	20025
1000 (61)	28.37	38.53	4.44	41.33	20x10	0.17	1.91	50.39	3729	403.86	26700

All dimensions are nominal and subject to normal manufacturing tolerances

-Cable marked with this symbol is a standard stock item

-Pulling tension based on pulling eye directly connected to conductor

-Hi-Dri-Plus® - Water Blocking Powder

-Solid black jacket

• 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	120	150
2 (7)	0.8727	1.1	0.0177	0.164	0.279	2.4278	0.390+j0.771	0.336+j0.052	2092	120	150
1 (Solid)	0.4232	0.53	0.0174	0.164	0.282	2.4278	0.216+j0.767	0.162+j0.048	2092	140	175
1 (19)	0.6923	0.87	0.0162	0.1575	0.305	2.6575	0.320+j0.765	0.266+j0.049	2092	140	175
1/0 (Solid)	0.3346	0.42	0.0162	0.1575	0.305	2.6575	0.182+j0.762	0.128+j0.046	2092	155	195
1/0 (19)	0.5479	0.69	0.0152	0.1542	0.325	2.8215	0.265+j0.761	0.211+j0.047	2092	155	195
2/0 (19)	0.4364	0.55	0.014	0.1476	0.351	3.0512	0.221+j0.757	0.167+j0.045	2441	180	220
3/0 (19)	0.3445	0.43	0.0128	0.1444	0.381	3.2808	0.186+j0.752	0.132+j0.043	3138	200	250
4/0 (19)	0.2756	0.34	0.0119	0.1378	0.417	3.6089	0.159+j0.747	0.105+j0.042	3836	235	285
4/0 (19)	0.2756	0.34	0.0119	0.1378	0.417	3.6089	0.159+j0.747	0.105+j0.042	3836	235	285
250 (37)	0.2329	0.3	0.011	0.1345	0.449	3.9042	0.144+j0.743	0.090+j0.041	4533	256	309
350 (37)	0.164	0.21	0.0094	0.128	0.512	4.4291	0.119+j0.734	0.065+j0.039	6277	310	370
350 (37)	0.164	0.21	0.0094	0.128	0.512	4.4291	0.119+j0.734	0.065+j0.039	6277	310	370
500 (37)	0.1148	0.15	0.0082	0.1214	0.591	5.1181	0.100+j0.725	0.046+j0.037	8865	370	445
750 (61)	0.0787	0.11	0.007	0.1181	0.689	5.9711	0.087+j0.714	0.033+j0.036	13298	460	525
750 (61)	0.0787	0.11	0.007	0.1181	0.689	5.9711	0.087+j0.714	0.033+j0.036	13298	460	525
1000 (61)	0.0591	0.09	0.0064	0.1148	0.778	6.7257	0.080+j0.705	0.026+j0.035	17615	520	575

-Ampacities for Direct Buried are based on ICEA P-117-734-2016 Single-Conductor Solid Dielectric 15-35kV. Single Circuit Flat Direct Buried Figure 3

-Ampacities for Duct are based on ICEA P-117-734-2016 for Single-Conductor Solid Dielectric 15-35kV. Single Circuit Trefoil Conduit Figure 7.

-Sequence Impedance values are based on Rho Earth Resistivity: 100 Ohm-Meter/1000ft.