



• Application

35kV cables are suited for use in wet and dry areas, conduits, ducts, direct burial, sunlight, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation. 130°C for emergency overload, and 250°C for short circuit conditions. Jacket types available that can be installed in conduit without the aid of lubrication. Rated for 1000 lbs./FT maximum sidewall pressure.

• Construction

Conductor: Moisture blocked class B compressed Aluminum ASTM B231 1350 ¾ hard H16/H26 (Non Moisture Blocked Optional)

Conductor Shield: Conventional Semi-conducting cross-linked copolymer; Supersmooth conductor shield optional; A conductor tape is used for cable size larger than or equal to 1500 kcmil

Insulation: 345 Mils Tree Retardant Cross Linked Polyethylene 100% insulation level

Insulation Shield: Strippable semi-conducting cross-linked copolymer

Concentric Neutral: Helically applied soft drawn bare copper full concentric neutral

Overall Jacket: Linear Low Density Polyethylene (LLDPE) Jacket, black with red extruded stripes; PowerGlide® LLDPE jacket optional

• 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)

-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

Stock Number	Cond. Size	Weights and Measurements										Min Bending Radius	Max Pull Tension
		Conductor Overall Dia.	Insulation Overall Dia.	Insul. Thickness	Insulation Shield Overall Dia.	Concentric Neutral	Neutral D.C. Resistance 25°C	Jacket Thickness	Approx. Overall Dia.	Approx. Weight			
	AWG/kcmil	inch	inch	mils	inch	No. x AWG	Ω/1000ft	mils	inch	lb/1000ft	inch	lb	
TBA	1/0 (Solid)	0.324	1.052	345	1.162	16x14	0.164	50	1.39	951	11.1	633	
626264^	1/0 (19)	0.351	1.072	345	1.182	16x14	0.164	50	1.41	906	11.3	633	
614785	1/0 (19)	0.351	1.072	345	1.182	16x14	0.164	50	1.41	905	11.3	633	
613665?	1/0 (19)	0.351	1.072	345	1.182	16x14	0.164	50	1.41	905	11.3	633	
618676	1/0 (19)	0.351	1.072	345	1.182	18x14	0.146	50	1.464	970	11.7	633	
627933	2/0 (19)	0.395	1.115	345	1.225	13x12	0.127	50	1.486	1049	11.9	798	
TBA	3/0 (19)	0.443	1.171	345	1.281	25x14	0.105	50	1.509	1223	12.1	1006	
626298^	4/0 (19)	0.498	1.218	345	1.328	20x12	0.083	50	1.589	1334	12.7	1269	
627939	4/0 (19)	0.498	1.218	345	1.328	13x10	0.08	50	1.631	1390	13	1269	
TBA	250 (37)	0.558	1.294	345	1.404	25x12	0.066	75	1.716	1666	13.7	1500	
TBA	350 (37)	0.661	1.397	345	1.507	32x12	0.051	75	1.819	1991	14.6	2100	

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

-HiDri Plus® - Water Blocking Powder

-SuperSmooth Conductor Semi-Con

-HiDri Plus - Water Blocking Powder. Black Jacket. CSA Listed

Electrical and Engineering Data												
Cond. Size	D.C. Resistance @ 25°C	A.C. Resistance @ 90°C	Capacitive 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	Allowable Ampacity Directly Buried 90°C	
AWG/kcmil	Ω/1000ft	Ω/1000ft	MΩ/1000ft	Ω/1000ft	A/1000ft	W/1000ft	Ω/1000ft	Ω/1000ft	A	A	A	
1/0 (Solid)	0.102	0.128	0.079	0.055	0.146	3	0.182+j0.749	0.128+j0.053	5579	160	195	
1/0 (19)	0.167	0.211	0.076	0.054	0.153	3.1	0.265+j0.748	0.211+j0.053	5579	160	195	
1/0 (19)	0.167	0.211	0.076	0.054	0.153	3.1	0.265+j0.748	0.211+j0.053	5579	160	195	
1/0 (19)	0.167	0.211	0.076	0.054	0.153	3.1	0.265+j0.748	0.211+j0.053	5579	160	195	
1/0 (19)	0.167	0.211	0.076	0.054	0.153	3.1	0.265+j0.748	0.211+j0.053	6277	160	195	
2/0 (19)	0.133	0.167	0.071	0.052	0.164	3.3	0.221+j0.743	0.167+j0.052	7203	185	220	
3/0 (19)	0.105	0.132	0.066	0.05	0.176	3.6	0.186+j0.740	0.132+j0.050	8718	210	250	
4/0 (19)	0.084	0.105	0.061	0.049	0.19	3.8	0.159+j0.734	0.105+j0.048	11081	240	280	
4/0 (19)	0.084	0.105	0.061	0.05	0.19	3.8	0.159+j0.732	0.105+j0.049	11450	240	280	
250 (37)	0.071	0.09	0.057	0.048	0.204	4.1	0.144+j0.729	0.090+j0.048	13852	261		
350 (37)	0.05	0.065	0.05	0.045	0.229	4.6	0.119+j0.722	0.065+j0.045	17730	315	365	

-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)												
Stock Number	Cond. Size	Conductor Overall Dia.	Insulation Overall Dia.	Insul. Thickness	Insulation Shield Overall Dia.	Concentric Neutral	Neutral 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
TBA	1/0 (Solid)	8.23	26.72	8.76	29.51	16x14	0.54	1.27	35.31	1415	281.94	2817
626264 [^]	1/0 (19)	8.92	27.23	8.76	30.02	16x14	0.54	1.27	35.81	1348	287.02	2817
614785	1/0 (19)	8.92	27.23	8.76	30.02	16x14	0.54	1.27	35.81	1347	287.02	2817
613665 [?]	1/0 (19)	8.92	27.23	8.76	30.02	16x14	0.54	1.27	35.81	1347	287.02	2817
618676	1/0 (19)	8.92	27.23	8.76	30.02	18x14	0.48	1.27	37.19	1444	297.18	2817
627933	2/0 (19)	10.03	28.32	8.76	31.12	13x12	0.42	1.27	37.74	1561	302.26	3551
TBA	3/0 (19)	11.25	29.74	8.76	32.54	25x14	0.34	1.27	38.33	1820	307.34	4477
626298 [^]	4/0 (19)	12.65	30.94	8.76	33.73	20x12	0.27	1.27	40.36	1985	322.58	5647
627939	4/0 (19)	12.65	30.94	8.76	33.73	13x10	0.26	1.27	41.43	2069	330.2	5647
TBA	250 (37)	14.17	32.87	8.76	35.66	25x12	0.22	1.91	43.59	2479	347.98	6675
TBA	350 (37)	16.79	35.48	8.76	38.28	32x12	0.17	1.91	46.2	2963	370.84	9345

All dimensions are nominal and subject to normal manufacturing tolerances

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-SuperSmooth Conductor Semi-Con

-HiDri Plus - Water Blocking Powder. Black Jacket. CSA Listed

Electrical and Engineering Data (Metric)											
Cond. Size	D.C. Resistance @ 25°C	A.C. Resistance @ 90°C	Capacitive 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	Allowable Ampacity Directly Buried 90°C
AWG/kcmil	Ω/km	Ω/km	MΩ/km	Ω/km	A/km	W/km	Ω/1000ft	Ω/1000ft	A	A	A
1/0 (Solid)	0.3346	0.42	0.0241	0.1804	0.479	9.8425	0.182+j0.749	0.128+j0.053	5579	160	195
1/0 (19)	0.5479	0.69	0.0232	0.1772	0.502	10.1706	0.265+j0.748	0.211+j0.053	5579	160	195
1/0 (19)	0.5479	0.69	0.0232	0.1772	0.502	10.1706	0.265+j0.748	0.211+j0.053	5579	160	195
1/0 (19)	0.5479	0.69	0.0232	0.1772	0.502	10.1706	0.265+j0.748	0.211+j0.053	5579	160	195
1/0 (19)	0.5479	0.69	0.0232	0.1772	0.502	10.1706	0.265+j0.748	0.211+j0.053	6277	160	195
2/0 (19)	0.4364	0.55	0.0216	0.1706	0.538	10.8268	0.221+j0.743	0.167+j0.052	7203	185	220
3/0 (19)	0.3445	0.43	0.0201	0.164	0.577	11.811	0.186+j0.740	0.132+j0.050	8718	210	250
4/0 (19)	0.2756	0.34	0.0186	0.1608	0.623	12.4672	0.159+j0.734	0.105+j0.048	11081	240	280
4/0 (19)	0.2756	0.34	0.0186	0.164	0.623	12.4672	0.159+j0.732	0.105+j0.049	11450	240	280
250 (37)	0.2329	0.3	0.0174	0.1575	0.669	13.4514	0.144+j0.729	0.090+j0.048	13852	261	
350 (37)	0.164	0.21	0.0152	0.1476	0.751	15.0919	0.119+j0.722	0.065+j0.045	17730	315	365

-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.