



• 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 stranded soft drawn bare copper per ASTM B3 and ASTM B8 (Conductor moisture block optional and tinned copper per ASTM B33 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 one-third concentric neutral
 Overall Jacket: Linear Low Density Polyethylene (LLDPE) Jacket, black with red extruded stripes; PowerGlide® LLDPE jacket optional

• 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
 AEIC 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												
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	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	9x14	0.292	50	1.39	1084	11.1	844
628241	1/0 (19)	0.361	1.082	345	1.192	9x14	0.292	50	1.42	1056	11.4	844
628244	2/0 (19)	0.405	1.126	345	1.236	11x14	0.239	50	1.464	1197	11.7	1064
TBA	3/0 (19)	0.456	1.184	345	1.294	14x14	0.187	50	1.522	1448	12.2	1342
628247	4/0 (19)	0.512	1.232	345	1.342	18x14	0.146	50	1.57	1601	12.6	1692
TBA	250 (37)	0.558	1.294	345	1.404	21x14	0.125	75	1.682	1967	13.5	2000
628287	350 (37)	0.661	1.391	345	1.501	18x12	0.092	75	1.816	2380	14.5	2800
TBA	500 (37)	0.789	1.525	345	1.665	26x12	0.063	75	1.977	3240	15.8	4000
628294	750 (61)	0.968	1.708	345	1.848	25x10	0.041	75	2.205	4413	17.6	6000
628301	1000 (61)	1.117	1.857	345	1.997	26x9	0.031	75	2.379	5597	19	8000
628303	1000 (61)	1.117	1.857	345	1.997	21x8	0.031	75	2.408	5658	19.3	8000

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

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	3138	210	250
1/0 (19)	0.102	0.128	0.074	0.053	0.155	3.1	0.182+j0.747	0.128+j0.054	3138	210	250
2/0 (19)	0.081	0.102	0.07	0.051	0.166	3.4	0.156+j0.743	0.102+j0.052	3836	235	280
3/0 (19)	0.064	0.081	0.064	0.049	0.179	3.6	0.135+j0.739	0.081+j0.050	4882	265	320
4/0 (19)	0.051	0.065	0.06	0.048	0.194	3.9	0.119+j0.735	0.065+j0.048	6277	300	360
250 (37)	0.043	0.056	0.057	0.047	0.204	4.1	0.110+j0.730	0.056+j0.047	7323	328	
350 (37)	0.031	0.041	0.05	0.045	0.229	4.6	0.095+j0.722	0.041+j0.045	9973	400	460
500 (37)	0.022	0.03	0.044	0.043	0.26	5.3	0.084+j0.714	0.030+j0.043	14406	470	525
750 (61)	0.014	0.023	0.038	0.041	0.3	6.1	0.077+j0.704	0.023+j0.041	22019	560	590
1000 (61)	0.011	0.019	0.034	0.039	0.335	6.8	0.073+j0.698	0.019+j0.039	28878		
1000 (61)	0.011	0.019	0.034	0.039	0.335	6.8	0.073+j0.697	0.019+j0.039	29419		

-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	9x14	0.96	1.27	35.31	1613	281.94	3756
628241	1/0 (19)	9.17	27.48	8.76	30.28	9x14	0.96	1.27	36.07	1572	289.56	3756
628244	2/0 (19)	10.29	28.6	8.76	31.39	11x14	0.78	1.27	37.19	1781	297.18	4735
TBA	3/0 (19)	11.58	30.07	8.76	32.87	14x14	0.61	1.27	38.66	2155	309.88	5972
628247	4/0 (19)	13	31.29	8.76	34.09	18x14	0.48	1.27	39.88	2383	320.04	7529
TBA	250 (37)	14.17	32.87	8.76	35.66	21x14	0.41	1.91	42.72	2927	342.9	8900
628287	350 (37)	16.79	35.33	8.76	38.13	18x12	0.3	1.91	46.13	3542	368.3	12460
TBA	500 (37)	20.04	38.73	8.76	42.29	26x12	0.21	1.91	50.22	4822	401.32	17800
628294	750 (61)	24.59	43.38	8.76	46.94	25x10	0.13	1.91	56.01	6567	447.04	26700
628301	1000 (61)	28.37	47.17	8.76	50.72	26x9	0.1	1.91	60.43	8329	482.6	35600
628303	1000 (61)	28.37	47.17	8.76	50.72	21x8	0.1	1.91	61.16	8420	490.22	35600

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

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	3138	210	250
1/0 (19)	0.3346	0.42	0.0226	0.1739	0.509	10.1706	0.182+j0.747	0.128+j0.054	3138	210	250
2/0 (19)	0.2657	0.33	0.0213	0.1673	0.545	11.1549	0.156+j0.743	0.102+j0.052	3836	235	280
3/0 (19)	0.21	0.27	0.0195	0.1608	0.587	11.811	0.135+j0.739	0.081+j0.050	4882	265	320
4/0 (19)	0.1673	0.21	0.0183	0.1575	0.636	12.7953	0.119+j0.735	0.065+j0.048	6277	300	360
250 (37)	0.1411	0.18	0.0174	0.1542	0.669	13.4514	0.110+j0.730	0.056+j0.047	7323	328	
350 (37)	0.1017	0.13	0.0152	0.1476	0.751	15.0919	0.095+j0.722	0.041+j0.045	9973	400	460
500 (37)	0.0722	0.1	0.0134	0.1411	0.853	17.3885	0.084+j0.714	0.030+j0.043	14406	470	525
750 (61)	0.0459	0.08	0.0116	0.1345	0.984	20.0131	0.077+j0.704	0.023+j0.041	22019	560	590
1000 (61)	0.0361	0.06	0.0104	0.128	1.099	22.3097	0.073+j0.698	0.019+j0.039	28878		
1000 (61)	0.0361	0.06	0.0104	0.128	1.099	22.3097	0.073+j0.697	0.019+j0.039	29419		

-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.