



• Application

They are suitable for high-reliability distribution systems, industrial and commercial installations, critical infrastructure, longer cable runs, underground distribution systems, wet and dry locations, industrial and commercial facilities, substations, utility networks, and both temporary and permanent installations. Ideal for high load conditions and unbalanced systems.

• 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: 220 Mills Tree Retardant Cross-Linked Polyethylene (TR-XLPE) with 133% insulation level
 Insulation Shield: Strippable semi-conducting cross-linked copolymer
 Concentric Neutral: Full concentric 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)
 -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	0.728	220	0.818	10x14	0.263	50	1.046	513	8.4	398
2 (Solid)	0.257	0.735	220	0.825	10x14	0.263	50	1.053	544	8.4	398
2 (7)	0.282	0.753	220	0.843	10x14	0.263	50	1.071	535	8.6	398
2 (7)	0.282	0.753	220	0.843	10x14	0.263	50	1.071	535	8.6	398
1 (Solid)	0.289	0.767	220	0.857	13x14	0.202	50	1.085	617	8.7	502
1 (19)	0.322	0.8	220	0.89	13x14	0.202	50	1.118	635	8.9	502
1/0 (Solid)	0.324	0.795	220	0.885	16x14	0.164	50	1.113	659	8.9	633
1/0 (19)	0.351	0.822	220	0.912	16x14	0.164	50	1.14	682	9.1	633
1/0 (19)	0.351	0.822	220	0.912	16x14	0.164	50	1.14	682	9.1	633
2/0 (19)	0.395	0.865	220	0.955	20x14	0.131	50	1.183	779	9.5	798
2/0 (19)	0.395	0.873	220	0.963	20x14	0.131	50	1.191	817	9.5	798
3/0 (19)	0.443	0.921	220	1.011	25x14	0.105	50	1.239	943	9.9	1006
4/0 (19)	0.498	0.968	220	1.058	20x12	0.083	50	1.319	1071	10.6	1269
4/0 (19)	0.498	0.968	220	1.058	20x12	0.083	50	1.319	1070	10.6	1269
250 (37)	0.558	1.044	220	1.154	25x12	0.066	50	1.416	1297	11.3	1500
350 (37)	0.661	1.147	220	1.257	32x12	0.051	50	1.519	1595	12.2	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

-HI-DRI-PLUS.

-Supersmooth conductor shield

-Non Moisture Block

• 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	0.071	0.054	0.07	0.61	0.258+j0.768	0.204+j0.053	3487	120	150
2 (Solid)	0.162	0.204	0.071	0.054	0.07	0.61	0.258+j0.768	0.204+j0.053	3487	120	150
2 (7)	0.266	0.336	0.067	0.052	0.074	0.64	0.390+j0.767	0.336+j0.054	3487	120	150
2 (7)	0.266	0.336	0.067	0.052	0.074	0.64	0.390+j0.767	0.336+j0.054	3487	120	150
1 (Solid)	0.129	0.162	0.066	0.052	0.075	0.65	0.216+j0.763	0.162+j0.050	4533	140	170
1 (19)	0.211	0.266	0.061	0.05	0.08	0.69	0.320+j0.761	0.266+j0.051	4533	140	170
1/0 (Solid)	0.102	0.128	0.061	0.05	0.081	0.7	0.182+j0.759	0.128+j0.048	5579	155	195
1/0 (19)	0.167	0.211	0.058	0.049	0.085	0.74	0.265+j0.757	0.211+j0.049	5579	155	195
1/0 (19)	0.167	0.211	0.058	0.049	0.085	0.74	0.265+j0.757	0.211+j0.049	5579	155	195
2/0 (19)	0.133	0.167	0.053	0.047	0.092	0.8	0.221+j0.753	0.167+j0.047	6974	180	220
2/0 (19)	0.133	0.167	0.053	0.047	0.092	0.8	0.221+j0.753	0.167+j0.047	6974	180	220
3/0 (19)	0.105	0.132	0.049	0.045	0.1	0.87	0.186+j0.749	0.132+j0.045	8718	205	250
4/0 (19)	0.084	0.105	0.045	0.044	0.109	0.94	0.159+j0.743	0.105+j0.044	11081	235	285
4/0 (19)	0.084	0.105	0.045	0.044	0.109	0.94	0.159+j0.743	0.105+j0.044	11081	235	285
250 (37)	0.071	0.09	0.042	0.043	0.117	1.01	0.144+j0.738	0.090+j0.043	13852	254	307
350 (37)	0.05	0.065	0.037	0.041	0.133	1.15	0.119+j0.731	0.065+j0.041	17730	305	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)											
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)	6.53	18.49	5.59	20.78	10x14	0.86	1.27	26.57	763	213.36	1771
2 (Solid)	6.53	18.67	5.59	20.96	10x14	0.86	1.27	26.75	810	213.36	1771
2 (7)	7.16	19.13	5.59	21.41	10x14	0.86	1.27	27.2	796	218.44	1771
2 (7)	7.16	19.13	5.59	21.41	10x14	0.86	1.27	27.2	796	218.44	1771
1 (Solid)	7.34	19.48	5.59	21.77	13x14	0.66	1.27	27.56	918	220.98	2234
1 (19)	8.18	20.32	5.59	22.61	13x14	0.66	1.27	28.4	945	226.06	2234
1/0 (Solid)	8.23	20.19	5.59	22.48	16x14	0.54	1.27	28.27	981	226.06	2817
1/0 (19)	8.92	20.88	5.59	23.16	16x14	0.54	1.27	28.96	1015	231.14	2817
1/0 (19)	8.92	20.88	5.59	23.16	16x14	0.54	1.27	28.96	1015	231.14	2817
2/0 (19)	10.03	21.97	5.59	24.26	20x14	0.43	1.27	30.05	1159	241.3	3551
2/0 (19)	10.03	22.17	5.59	24.46	20x14	0.43	1.27	30.25	1216	241.3	3551
3/0 (19)	11.25	23.39	5.59	25.68	25x14	0.34	1.27	31.47	1403	251.46	4477
4/0 (19)	12.65	24.59	5.59	26.87	20x12	0.27	1.27	33.5	1594	269.24	5647
4/0 (19)	12.65	24.59	5.59	26.87	20x12	0.27	1.27	33.5	1592	269.24	5647
250 (37)	14.17	26.52	5.59	29.31	25x12	0.22	1.27	35.97	1930	287.02	6675
350 (37)	16.79	29.13	5.59	31.93	32x12	0.17	1.27	38.58	2374	309.88	9345

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.

-Supersmooth conductor shield

-Non Moisture Block

• 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	0.0216	0.1772	0.23	2.0013	0.258+j0.768	0.204+j0.053	3487	120	150
2 (Solid)	0.5315	0.67	0.0216	0.1772	0.23	2.0013	0.258+j0.768	0.204+j0.053	3487	120	150
2 (7)	0.8727	1.1	0.0204	0.1706	0.243	2.0997	0.390+j0.767	0.336+j0.054	3487	120	150
2 (7)	0.8727	1.1	0.0204	0.1706	0.243	2.0997	0.390+j0.767	0.336+j0.054	3487	120	150
1 (Solid)	0.4232	0.53	0.0201	0.1706	0.246	2.1325	0.216+j0.763	0.162+j0.050	4533	140	170
1 (19)	0.6923	0.87	0.0186	0.164	0.262	2.2638	0.320+j0.761	0.266+j0.051	4533	140	170
1/0 (Solid)	0.3346	0.42	0.0186	0.164	0.266	2.2966	0.182+j0.759	0.128+j0.048	5579	155	195
1/0 (19)	0.5479	0.69	0.0177	0.1608	0.279	2.4278	0.265+j0.757	0.211+j0.049	5579	155	195
1/0 (19)	0.5479	0.69	0.0177	0.1608	0.279	2.4278	0.265+j0.757	0.211+j0.049	5579	155	195
2/0 (19)	0.4364	0.55	0.0162	0.1542	0.302	2.6247	0.221+j0.753	0.167+j0.047	6974	180	220
2/0 (19)	0.4364	0.55	0.0162	0.1542	0.302	2.6247	0.221+j0.753	0.167+j0.047	6974	180	220
3/0 (19)	0.3445	0.43	0.0149	0.1476	0.328	2.8543	0.186+j0.749	0.132+j0.045	8718	205	250
4/0 (19)	0.2756	0.34	0.0137	0.1444	0.358	3.084	0.159+j0.743	0.105+j0.044	11081	235	285
4/0 (19)	0.2756	0.34	0.0137	0.1444	0.358	3.084	0.159+j0.743	0.105+j0.044	11081	235	285
250 (37)	0.2329	0.3	0.0128	0.1411	0.384	3.3136	0.144+j0.738	0.090+j0.043	13852	254	307
350 (37)	0.164	0.21	0.0113	0.1345	0.436	3.773	0.119+j0.731	0.065+j0.041	17730	305	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.