Application

The monoconductor power cables are preferably used in urban networks,primary and medium voltage distribution circuits for industrial and commercial plants, electric power generators, power supply for transformers, motors and equipment.
EATs are appropriate for applications where greater flexibility is needed than that of XATs.

Advantage

Good tensile strength.
High resistance to impact and abrasion.
Excellent resistance to sunlight and weather.
Very high resistance to humidity, ozone, acids, alkalis and other sus-chemical substances at normal temperatures.
Low dielectric constant, low loss factor and high resistance of isolation.
The cover is flame retardant.

Performance

Voltage:5 kV, 8 kV, 15 kV, 25 kV, 35 kV
Maximum service temperature: 90 °C.
Emergency overload temperature: 130 °C.
Short circuit temperature: 250 °C.
Flexibility: Compacted conductor.

Construction

Conductor:compacted copper conductor per ASTM B496 or ASTMB835.
Internal Semiconductor Screen:extruded on the conductor.
Insulation:tree retardant cross-linked polyethylene (XLPE-TR) for XAT. Ethylene Propylene Rubber (EPR) for EAT. Both compounds are natural in color and are applied by true triple extrusion process. The isolation level can be 100% .
External Semiconductor Screen:extruded, with adequate adhesion to the insulation that makes it easy to peel.
Metal Screen: It can be formed by a copper tape or by copper wires, both applied helically.
Outer Cover : Black PVC. Other colors and compounds available upon request.

Specification

-ICEA S-93-639

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 Rhineland 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

XAT 15KV 133% Insulation Level										
Conductor Gauge	Nominal Cross Section Area	Approx. Conductor Dia.	Nominal Insulation Thickness	Approx. Total Dia.	Approx. Cable Weight	Max. D.C. Resistance At 20 °C	Capacity	Buried in Duct 3 Conductors Temp. with	Directly Buried 3 Conductors Temp. With	Directly Buried 3 Conductors Temp. with
AWG/kcmil	mm^2	mm	mm	mm	kg/km	Ω/km	μF/km	20°C	20°C	40°C
2	33,6	6,9	5,59	26,1	957	0,531	0,14	155	210	170
1	42,4	7,7	5,59	26,9	1.06	0,423	0,15	175	240	195
1/0	53,5	8,7	5,59	28,0	1. 193	0,335	0,16	200	275	225
2/0	67,4	9,7	5,59	29,0	1.351	0,266	0,17	230	310	260
3/0	85	10,9	5,59	30,4	1.557	0,211	0,19	260	355	300
4/0	107	12,2	5,59	31,8	1.803	0,167	0,20	295	405	345
250	127	13,2	5,59	33,2	2.038	0,141	0,21	325	440	380
350	177	15,5	5,59	35,5	2.567	0,101	0,24	390	535	470
500	253	18,6	5,59	39,0	3.361	0,0708	0,28	465	650	580
750	380	23,0	5,59	43,5	4.653	0,0472	0,32	565	805	730
1000	507	27,0	5,59	49,7	6.188	0,0354	0,37	640	930	850

XAT 25KV 133% Insulation Level										
Conductor Gauge	Nominal Cross Section Area	Approx. Conductor Dia.	Nominal Insulation Thickness	Approx. Total Dia.	Approx. Cable Weight	Max. D.C. Resistance At 20 °C	Capacity	Buried in Duct 3 Conductors Temp. with	Directly Buried 3 Conductors Temp. With	Directly Buried 3 Conductors Temp. with
AWG/kcmil	mm^2	mm	mm	mm	kg/km	Ω/km	μF/km	20°C	20°C	40°C
1	42,4	7,7	8.13	32.6	1.377	0,423	0.12	175	240	195
1/0	53,5	8,7	8.13	33.6	1.159	0,335	0.13	200	275	225
2/0	67,4	9,7	8.13	34.6	1.686	0,266	0.14	230	310	260
3/0	85	10,9	8.13	36	1.905	0,211	0.15	260	355	300
4/0	107	12,2	8.13	37.5	2.160	0,167	0.16	295	405	345
250	127	13,2	8.13	38.4	2.374	0,141	0.17	325	440	380
350	177	15,5	8.13	40.8	2.923	0,101	0.18	390	535	470
500	253	18,6	8.13	45.9	3.945	0,0708	0.21	465	650	580
750	380	23,0	8.13	50.8	5.336	0,0472	0.24	565	805	730
1000	507	27,0	8.13	54.9	6.667	0,0354	0.27	640	930	850