Application

Armoured power cables with reduced earth are used in mains,sub-mains and sub-circuits where enclosed in conduit ,buried directly or in underground ducts for buildings and industrial plants where not subject to mechanical damage.

Performance

Electrical performance U0/U:0.6/1kV
Chemical performance :chemical,UV&oil resistance
Mechanical performance: minimum bending radius:15 x overall di ameter
Terminal performance :
-Maximum service temperature:90℃
-Maximum short-circuit temperature: 250℃(Max.5s)
-Minimum service temperature:-25℃
Fire performance:
-Flame retardant according to IEC/EN 60332-1-2 standard
-Reduced emission of halogens chlorine <15%

Construction

Conductor: plain circular,compacted or shaped stranded copper conductor
Insulation:XLPE (Cross-linked polyethylene)
Bedding: PVC(Polyvinyl chloride)
Armoring: SWA(Galvanized Steel Wire Armour)
Sheath: PVC(Polyvinyl chloride) or PE(Polyethylene)
Core Identification
Three cores+Earth:red,white,blue,green/yellow
Four cores+ Earth:red,white,blue,black,green/yellow
Sheath Colour: Orange

Specification

-AS/NZS 5000.1, AS/NZS 3008, AS/NZS 1125

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

Physical Performance Parameters								
No.of Cores	Nominal Cross Section Area	No./mm of Stranding Wires of Conductor	Nominal Thickness of Insulation	Nominal Cross Section Area of Earth Conductor	Nominal Insul. Thick. of Earth Conductor	Nominal Dia. of Armour	Nominal Overall Dia.	Nominal Weight
-	mm^2	mm	mm	mm^2	mm	kg/km	mm	kg/km
3+E	16	7/1.70	0.7	6	0.7	1.25	22.8	1285
3+E	25	7/2.14	0.9	6	0.7	1.6	26.7	1845
3+E	35	7/2.65	0.9	10	0.7	1.6	28.7	2315
3+E	50	19/1.89	1.0	16	0.7	1.6	32.0	2935
3+E	70	19/2.24	1.1	25	0.9	2.0	38.3	3880
3+E	95	19/2.65	1.1	25	0.9	2.0	43.1	5250
3+E	120	19/2.94	1.2	35	0.9	2.0	45.4	5765
3+E	150	19/3.28	1.4	50	1.0	2.5	51.4	7560
3+E	185	37/2.65	1.6	70	1.1	2.5	56.6	9220
3+E	240	37/2.94	1.7	95	1.1	2.5	63.6	11740
4+E	16	7/1.70	0.7	6	0.7	1.25	26.3	1725
4+E	25	7/2.14	0.9	6	0.7	1.6	29.6	2335
4+E	35	7/2.65	0.9	10	0.7	1.6	31.5	2605
4+E	50	19/1.89	1.9	16	0.7	1.6	36.5	3860
4+E	70	19/2.24	1.1	25	0.9	2.0	41.8	5135
4+E	95	19/2.65	1.1	25	0.9	2.0	45.8	5900
4+E	120	19/2.94	1.2	35	0.9	2.0	41.7	9090
4+E	150	19/3.28	1.4	50	1.0	2.5	56.9	10410
4+E	185	37/2.65	1.6	70	1.1	2.5	63.1	11600
4+E	240	37/2.94	1.7	95	1.1	2.5	70.1	14700

Electrical Performance Parameters							
Nominal Cross Section Area	Current Rating			Max.D.C. Resistance at 20℃	Max.A.C. Resistance at 90℃	Reactance	3 Phase Voltage Drop at 90℃
	in air	buried directly	buried in duct				
mm^2	A	A	A	Ω/km	Ω/km	Ω/km	mV/A
16	83	110	83	1.15	1.47	0.0805	2.55
25	110	145	110	0.727	0.927	0.0808	1.61
35	135	170	135	0.524	0.669	0.0786	1.17
50	170	205	160	0.387	0.494	0.0751	0.868
70	215	250	200	0.268	0.343	0.0741	0.609
95	265	300	240	0.193	0.248	0.0725	0.450
120	305	345	275	0.153	0.197	0.0713	0.366
150	350	385	310	0.124	0.160	0.0718	0.307
185	405	435	355	0.0991	0.129	0.0720	0.259
240	480	500	420	0.0754	0.0998	0.0709	0.216