35KV Medium Voltage STA Armoured Cable

Construction

Conductor: Plain annealed copper Class 2
Insulation: XLPE (cross-linked polyethylene)
Metallic Screen: Copper Tape
Metallic armour: SWA or STA
Outer Sheath: PVC (Polyvinyl Chloride)

Applications

Designed for primary power distribution in utility substations, industrial plants, and renewable energy infrastructure. Rated for 35kV, they are suitable for installation in cable ducts, trays, open air, or direct underground burial, providing reliable transmission in both dry and wet environment.

Standards

GB/12706-2008
IEC60502
IEC 60228
IEC 60332
BS 5467
BS 6622

Specification

Voltage Rating	**35kV**
Test Voltage	**91KV/5Min**
Temperature Range	**-20°C to +90°C**
Max. temperature during short circuit (≤5S)	**250°C**
Min. Bending radius	**15 x cable Ø;**

Technical Data

Three Core 35KV Steel Tape Armoured Cable

Specification	Outer diameter	Nominal thickness of insulation	Steel tape Layer×thickness	Nominal sheath thickness	Approx. outer diameter of cable	Approx. Weight of cable		Ampacity of cable			
								Air		Soil	
						CU	AL	Cu	Al	Cu	Al
mm2	mm	mm	mm	mm	mm	kg/km	kg/km	A	A	A	A
3×50	8.4	9.3	2×0.5	3.5	79.2	7347.7	6415.0	180	140	190	145
3×70	10.0	9.3	2×0.8	3.7	84.1	9098.0	7792.2	220	170	230	180
3×95	11.5	9.3	2×0.8	3.8	87.9	10338.9	8566.8	265	205	275	215
3×120	13.0	9.3	2×0.8	3.9	91.4	11507.9	9269.5	310	240	315	245
3×150	14.5	9.3	2×0.8	4.0	95.0	12819.4	10021.3	350	270	355	275
3×185	16.2	9.3	2×0.8	4.1	99.0	14325.3	10874.4	400	310	400	310
3×240	18.4	9.3	2×0.8	4.3	104.2	16451.4	11974.5	465	360	460	360
3×300	20.5	9.3	2×0.8	4.4	109.2	18773.8	13177.7	535	420	520	410
3×400	23.5	9.3	2×0.8	4.7	116.4	22472.7	15011.2	615	485	590	465