8.7/15KV Medium Voltage SWA 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 12/20kV, 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
IEC60332
BS 5467
BS 6622

Specification

Voltage Rating **Test Voltage**	**12/20kV**
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 8.7/15KV Medium Voltage Steel Wire Armoured Cable

Nom. Cross-Section Area		Unarmoured Cables					Steel Wire Armoured Cables						
	Nom. Insulation Thickness	Copper Wire Screen Area	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight		Copper Tape Screen Area	Nom. Bedding Thickness	Nom. Armour Wire Diameter	Nom. Sheath Thickness	Approx. Overall Diameter	Approx. Weight	
					CU	AL						CU	AL
mm²	mm	mm²	mm	mm	kg/km		mm²	mm	mm	mm	mm	kg/km	
25	4.5	16	2.4	48.4	3000	2420	4.4	1.4	2.5	2.6	55.2	5600	5100
35	4.5	16	2.5	50.4	3450	2670	4.7	1.4	2.5	2.7	57.6	6130	5440
50	4.5	16	2.6	53.7	4140	3190	4.9	1.5	2.5	2.8	61.1	7010	6060
70	4.5	16	2.7	57.2	4980	3640	5.3	1.5	2.5	2.9	64.6	8030	6700
95	4.5	16	2.8	60.6	5900	4050	5.7	1.6	2.5	3.0	68.2	9160	7330
120	4.5	16	2.9	63.9	6870	4560	6.1	1.7	2.5	3.1	71.7	10340	8030
150	4.5	25	3.0	67.9	8030	5230	6.4	1.7	2.5	3.2	75.4	11730	8930
185	4.5	25	3.1	71.1	9310	5770	6.8	1.8	3.15	3.4	80.6	14170	10570
240	4.5	25	3.3	76.9	11390	6680	7.4	1.9	3.15	3.6	86.6	16670	11810
300	4.5	25	3.5	81.6	13510	7790	7.9	2.0	3.15	3.7	91.3	19140	13340
400	4.5	35	3.7	89.9	17130	9340	8.5	2.1	3.15	4.0	100.0	23360	15410