

5KV MV 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 5kV, 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	5kV
Test Voltage	30.5KV/5Min
Temperature Range	-15°C to +90°C
Max. temperature during short circuit (≤5S)	250
Min. Bending radius	15 x cable Ø;

Technical Data

nominal cross-sectionmm	insulation thickness mm	O.D.mm	capacitance $\mu\text{F}/\text{km}$	approx.ampacity (air)A		approx. ampacity buriedA		reference weight of finished cablekg /km	
				Cu	Al	Cu	Al	Cu	Al
3X25	2.5	46	0.22	129	100	155	120	2945	2480
3X35	2.5	49	0.25	156	120	185	144	3390	2739
3X50	2.5	52	0.26	184	143	218	169	4065	3135
3X70	2.5	55	0.28	229	177	267	207	4816	3513
3X95	2.5	60	0.30	275	213	319	247	5879	4129
3X120	2.5	63	0.32	316	246	363	282	6844	4611
3X150	2.5	67	0.33	363	281	412	319	7973	5182
3X185	2.5	71	0.35	408	317	460	357	9281	5838
3X240	2.5	77	0.38	178	372	531	413	11229	6763
3X300	2.5	83	0.40	546	425	598	466	14106	8524