

10KV 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 10kV, 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	10 kV
Test Voltage	30.5KV/5Min
Temperature Range	-20°C to +90°C
Max. temperature during short circuit (≤5S)	250
Min. Bending radius	15 x cable Ø;

Technical Data

nominal cross-section mm	insulation thickness mm	O.D.mm	capacitance $\mu\text{F}/\text{km}$	approx.ampacity (air)A		approx.ampacity buriedA		reference weight of finished cable kg/km	
				Cu	Al	Cu	Al	Cu	Al
3X25	5.5	55.5	0.22	129	100	155	120	3833	3476
3X35	5.5	57.9	0.25	156	120	185	144	4313	3702
3X50	5.5	61.1	0.26	184	143	218	169	5281	4311
3X70	5.5	64.9	0.28	229	177	267	207	5878	4399
3X95	5.5	68.8	0.30	275	213	319	247	6867	4770
3X120	5.5	72.2	0.32	316	246	363	282	7906	5192
3X150	5.5	75.8	0.33	363	281	412	319	9045	5554
3X185	5.5	79.9	0.35	408	317	460	357	10435	6070
3X240	5.5	86.4	0.38	178	372	531	413	13299	7532
3X300	5.5	91.6	0.40	546	425	598	466	15463	8169