



• Application

BS EN 50397-1 Medium Voltage Covered Conductors (MVCCs) have been developed to enhance the reliability of electricity distribution. These conductors are composed of a conductor that is insulated by a covering made from insulating materials. This insulation serves as a protective measure against accidental contact with other covered conductors and grounded objects, such as tree branches. MVCCs are manufactured with voltage ratings ranging from 6.6 kilovolts (KV) to 36 KV, used for primary and secondary overhead distribution where space is limited or a reduced right-of-way is desired.

• Construction

Conductor: Longitudinally water tight stranded all aluminum alloy (AAAC) or aluminum conductor steel reinforced (ACSR)
 Strand & Shield: Semi conducting cross linked polymer
 Inner Insulation: Low density track resistant cross linked polyethylene (HDTRXLPE)
 Outer Insulation: High density track resistant cross linked polyethylene (HDTRXLPE).

• Anti Tracking Properties

The anti-tracking property is essential for the outer XLPE/HDPE layer of medium voltage covered conductors (MVCC). Without anti-tracking properties, XLPE or HDPE can fail within a short period (5-6 months) in several international utility applications. The anti-tracking jacket is designed to withstand outdoor conditions and meet the performance requirements of 13.8 kV to 34.5 kV distribution networks. It provides excellent resistance to arcing, corrosion, fungicide activity, oil, and adverse weather conditions, including humidity, pollution, and salt in the atmosphere. BS EN 50397-1 includes a special test method for evaluating the anti-tracking properties.

• Specification

-BS EN 50397-1
 -BS EN 50182
 -IS 398-2
 -IS 398-4
 -IEC 61089

• 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 Rheinland 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

Nominal Cross Section Area	No. of Wires	Conductor Dia.	Overall Dia.	Min. Breaking Load	Approx. Weight	Max. D.C. Resistance at 20°C	Ampacity 90°C
mm ²		mm	mm	kgf	kg/km	Ω/km	A
15kV Overhead Covered Conductor							
35	7	7.1	13.6	464	190	0.868	187
50	7	8.2	14.7	663	235	0.641	225
70	19	9.7	16.2	928	315	0.443	282
95	19	11.5	18	1259	400	0.32	345
120	19	12.9	19.4	1591	500	0.253	401
150	19	14.2	20.7	1988	580	0.206	456
185	37	16.2	22.6	2452	695	0.164	525
240	37	18.4	24.9	3182	875	0.125	625
300	37	20.7	27.1	3977	1070	0.1	721
300	37	20.7	27.1	3977	1070	0.1	721
25kV Overhead Covered Conductor							
35	7	7.1	15.7	464	235	0.868	186
50	7	8.2	16.8	663	305	0.641	224
70	19	9.7	18.3	928	370	0.443	280
95	19	11.5	20.1	1259	460	0.32	343
120	19	12.9	21.5	1591	560	0.253	397
150	19	14.2	22.8	1988	650	0.206	450
185	37	16.2	24.8	2452	770	0.164	519
240	37	18.4	27	3182	960	0.125	617
300	37	20.7	29.3	3977	1155	0.1	712
35kV Overhead Covered Conductor							
70	19	9.7	25.7	928	620	0.443	270
95	19	11.5	27.5	1259	732	0.32	329
120	19	12.9	28.9	1591	830	0.253	381
150	19	14.2	30.2	1988	937	0.206	432
185	37	16.2	32.2	2452	1083	0.164	497
240	37	18.4	34.4	3182	1290	0.125	589
300	37	20.7	36.7	3977	1502	0.1	674