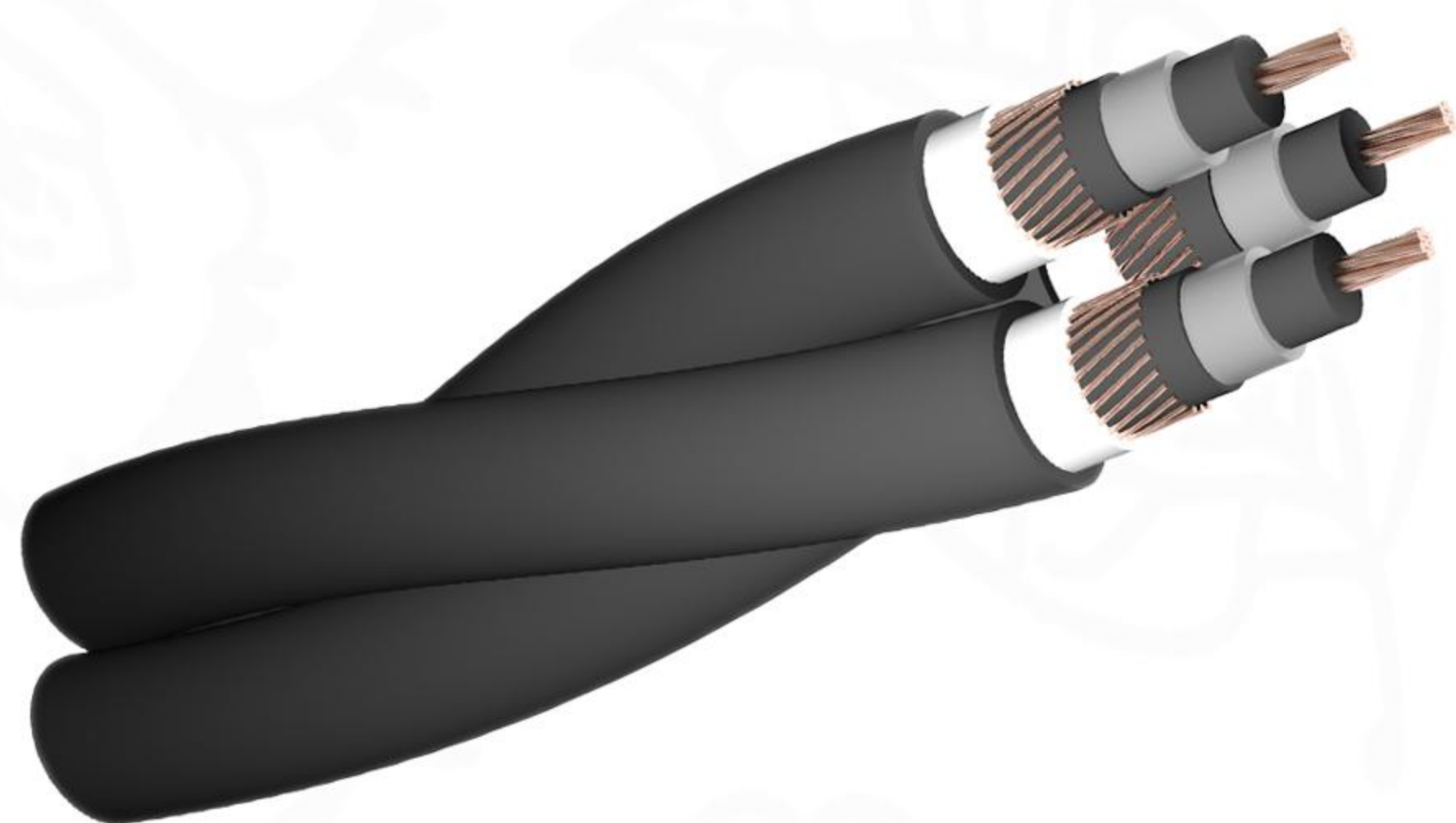




Cu(Al) 6.35/11 kV – Three Core Triplex Heavy Duty Screened Unarmoured MV CABLE

APPLICATION:

Triplex cables are mainly used in medium-voltage power distribution, either overhead or underground. They carry power from substations to industrial sites, commercial buildings or homes, and their compact 3-conductor design helps save space and ensure reliable power supply at the stated voltage.

CABLE STRUCTURE:

Conductor:

Stranded compacted conductor(copper or aluminum)

Semi-conductive conductor screen:

Extruded cross-linked compound

Insulation:

XLPE

Semi-conductive insulation screen:

Extruded hand strippable semi-conductive cross-linked compound

Metallic screen:

Copper wire screen
(nominal 10kA for 1 second)

Waterproof layer:

Water blocking taped

Outer sheath:

HDPE

STANDARDS:

Product:

AS/NZS 1429.1

Electric cables - Polymeric insulated

For working voltages 1.9/3.3 (3.6) kV up to and including 19/33 (36) kV

Conductor:

AS/NZS 1125

Conductors in insulated electric cables and flexible cords

Insulation & Sheath:

AS/NZS 3808

Insulating and sheathing materials for electric cables

TECHNICAL DATA:

Rated volatge:

6.35/11 kV

Temperature range:

Minimum installation temperature: 0°C

Maximum operating temperature: +90°C

Fault level:

Up to 10kA for 1 sec

Bending radius:

Installed cables:

15D (HDPE)

During installation:

25D (HDPE)

CERTIFICATES:

We hold SAA certifications for our product categories. Additionally, we possess authoritative certifications recognized in other countries and regions.





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Physical Character Sheet (AL Conductor)

Nominal conductor area	Nominal insulation thickness	Diameter over insulation	Number of screen wires and diameter of screen wires	Approx. overall diameter	Approx. weight	Maximum pulling tension	Minimum Bending Radius Cable bundle During installation	Minimum Bending Radius Cable bundle Installed
mm ²	mm	mm	nb x mm Ø	mm	kg/km	kN	mm	mm
3 × 50	3.4	16.3	23/1.35	55.9	2300	7.5	760	500
3 × 70	3.4	17.8	32/1.35	59.1	2900	11	840	560
3 × 95	3.4	19.4	43/1.35	62.6	3650	14	910	610
3 × 120	3.4	21	48/1.53	66.5	4150	18	960	640
3 × 150	3.4	22.3	48/1.53	69.3	4500	23	1010	670
3 × 185	3.4	24.1	48/1.53	73.7	4850	25	1060	710
3 × 240	3.4	26.3	48/1.53	78.9	5500	25	1140	760
3 × 300	3.4	28.5	48/1.53	83.6	6150	25	1210	810
3 × 400	3.4	31.6	48/1.53	90.8	7100	25	1310	870
3 × 500	3.4	34.8	48/1.53	98.2	8400	25	1540	1030

Electrical Data Sheet (AL Conductor)

Nominal conductor area	Max. conductor DC resistance at 20°C	Conductor AC resistance at 50Hz and 90°C	Inductive reactance at 50Hz and 90°C	Min insulation resistance at 20°C	Current rating at core temp. 90°C in ground	Current rating at core temp. 90°C in air
mm ²	Ohm/km	Ohm/km	Ohm/km	MOhm/km	A	A
3 × 50	0.641	0.821	0.134	9900	132	125
3 × 70	0.443	0.568	0.124	8700	163	157
3 × 95	0.32	0.41	0.118	7800	197	194
3 × 120	0.253	0.325	0.114	7100	223	221
3 × 150	0.206	0.265	0.11	6600	249	247
3 × 185	0.164	0.211	0.107	6100	281	279
3 × 240	0.125	0.161	0.103	5400	323	323
3 × 300	0.1	0.13	0.1	4900	372	380
3 × 400	0.078	0.102	0.096	4400	422	434
3 × 500	0.062	0.082	0.093	3900	474	490



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Nominal conductor area	Nominal insulation thickness	Diameter over insulation	Number of screen wires and diameter of screen wires	Approx. overall diameter	Approx. weight	Maximum pulling tension	Minimum Bending Radius Cable bundle During installation	Minimum Bending Radius Cable bundle Installed
mm ²	mm	mm	nb x mm ø	mm	kg/km	kN	mm	mm
3 × 35	3.4	15	24/1.35	53.1	2800	7.4	730	490
3 × 50	3.4	16.3	34/1.35	55.9	3600	11	780	520
3 × 70	3.4	17.8	30/1.70	60.7	4800	15	860	580
3 × 95	3.4	19.4	48/1.35	62.6	5650	20	910	610
3 × 120	3.4	21	48/1.35	66.5	6500	25	960	640
3 × 150	3.4	22.3	48/1.35	69.3	7350	25	1010	670
3 × 185	3.4	24.1	48/1.35	73.7	8300	25	1060	710
3 × 240	3.4	26.3	48/1.35	78.9	10130	25	1140	760
3 × 300	3.4	28.5	48/1.35	83.6	11900	25	1210	810
3 × 400	3.4	31.6	48/1.35	90.8	14500	25	1310	870
3 × 500	3.4	34.8	48/1.35	98.2	17600	25	1440	960

Electrical Data Sheet (CU Conductor)

Nominal conductor area	Max. conductor DC resistance at 20°C	Conductor AC resistance at 50Hz and 90°C	Inductive reactance at 50Hz and 90°C	Min insulation resistance at 20°C	Current rating at core temp. 90°C in ground	Current rating at core temp. 90°C in air
mm ²	Ohm/km	Ohm/km	Ohm/km	MOhm/km	A	A
3 × 35	0.524	0.668	0.141	11000	145	135
3 × 50	0.387	0.494	0.135	10000	172	165
3 × 70	0.268	0.342	0.129	8800	209	202
3 × 95	0.193	0.247	0.117	7700	252	248
3 × 120	0.153	0.196	0.113	7000	285	282
3 × 150	0.124	0.16	0.11	6400	318	315
3 × 185	0.099	0.128	0.106	5900	357	354
3 × 240	0.075	0.098	0.102	5300	408	408
3 × 300	0.06	0.079	0.1	4800	467	478
3 × 400	0.047	0.063	0.096	4300	524	539
3 × 500	0.037	0.052	0.093	3900	581	602