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

APPLICATION:

Distribution network cables serve as primary power supply for commercial, industrial and urban residential networks, suitable for high fault level systems (up to 10kA/1sec); higher fault current rated versions are available on request.

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)

Inner sheath: Black PVC

Amour: Galvanised steel wires

Outer sheath:

PVC. Optional: HDPE, halogen-free, flame-retardant, plus termite protection (nylon, double brass tape or chemical additive).

CERTIFICATES:

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

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
Minimum operating temperature: -25°C

Fault level:

Up to 10kA for 1 sec

Bending radius:

Installed cables:
12D (PVC) 15D (HDPE)
During installation:
18D (PVC) 25D (HDPE)

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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	Diameter of steel wire	Approx. overall diameter	Approx. weight	Maximum pulling tension	Minimum Bending Radius During installation	Minimum Bending Radius Installed
mm2	mm	mm	nb x mm ⌀	mm	mm	kg/km	kN	mm	mm
3 × 50	3.4	16.3	19/0.85	2.5	56.7	4600	7.5	1010	670
3 × 70	3.4	17.8	27/0.85	2.5	60.3	5300	11	1090	720
3 × 95	3.4	19.4	36/0.85	2.5	64.2	6100	14	1160	770
3 × 120	3.4	21.0	40/0.85	2.5	68.1	6750	18	1220	810
3 × 150	3.4	22.3	40/0.85	2.5	71.3	7300	23	1280	850
3 × 185	3.4	24.1	40/0.85	3.2	76.7	8000	25	1380	920
3 × 240	3.4	26.3	40/0.85	3.15	82.1	9900	25	1470	980
3 × 300	3.4	28.5	40/0.85	3.15	87.4	11100	25		

Electrical Data Sheet (AL Conductor)

Nominal conductor area	Max. conductor DC resistance at 20℃	Conductor AC resistance at 50Hz and 90℃	Inductive reactance at 50Hz and 90℃	Min insulation resistance at 20℃	Current rating at core temp. 90℃ in ground	Current rating at core temp. 90℃ in air
mm2	Ohm/km	Ohm/km	Ohm/km	MOhm/km	A	A
3 × 50	0.641	0.822	0.1130	9900	155	151
3 × 70	0.443	0.569	0.1040	8700	191	184
3 × 95	0.320	0.411	0.0987	7800	227	226
3 × 120	0.253	0.325	0.0954	7100	257	260
3 × 150	0.206	0.265	0.0926	6600	286	293
3 × 185	0.164	0.211	0.0900	6100	323	335
3 × 240	0.125	0.162	0.0875	5400	374	398
3 × 300	0.100	0.130	0.0860	4900	414	444

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Physical Character Sheet (CU Conductor)

Nominal conductor area	Nominal insulation thickness	Diameter over insulation	Number of screen wires and diameter of screen wires	Diameter of steel wire	Approx. overall diameter	Approx. weight	Maximum pulling tension	Minimum Bending Radius During installation	Minimum Bending Radius Installed
mm2	mm	mm	nb x mm ⌀	mm	mm	kg/km	kN	mm	mm
3 × 35	3.4	15.0	20/0.85	2.5	53.7	4950	7.4	970	64
3 × 50	3.4	16.3	29/0.85	2.5	56.7	5600	11	1010	680
3 × 70	3.4	17.8	40/0.85	2.5	60.3	6800	15	1090	720
3 × 95	3.4	19.4	40/0.85	2.5	64.2	7950	20	1160	770
3 × 120	3.4	21.0	40/0.85	2.5	68.1	9100	25	1220	810
3 × 150	3.4	22.3	40/0.85	2.5	71.3	10200	25	1280	860
3 × 185	3.4	24.1	40/0.85	3.2	76.6	11500	25	1380	920
3 × 240	3.4	26.3	40/0.85	3.15	82.1	14700	25	1480	980
3 × 300	3.4	28.5	40/0.85	3.15	87.4	17100	25		

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
mm2	Ohm/km	Ohm/km	Ohm/km	MOhm/km	A	A
3 × 35	0.524	0.668	0.118	11000	170	162
3 × 50	0.387	0.494	0.113	10000	200	195
3 × 70	0.268	0.342	0.103	8900	245	240
3 × 95	0.193	0.247	0.0989	7900	291	290
3 × 120	0.153	0.196	0.0954	7200	327	336
3 × 150	0.124	0.159	0.0927	6600	366	374
3 × 185	0.0991	0.128	0.0898	6000	410	427
3 × 240	0.0754	0.099	0.0874	5400	469	493
3 × 300	0.0601	0.08	0.0860	4800	517	554