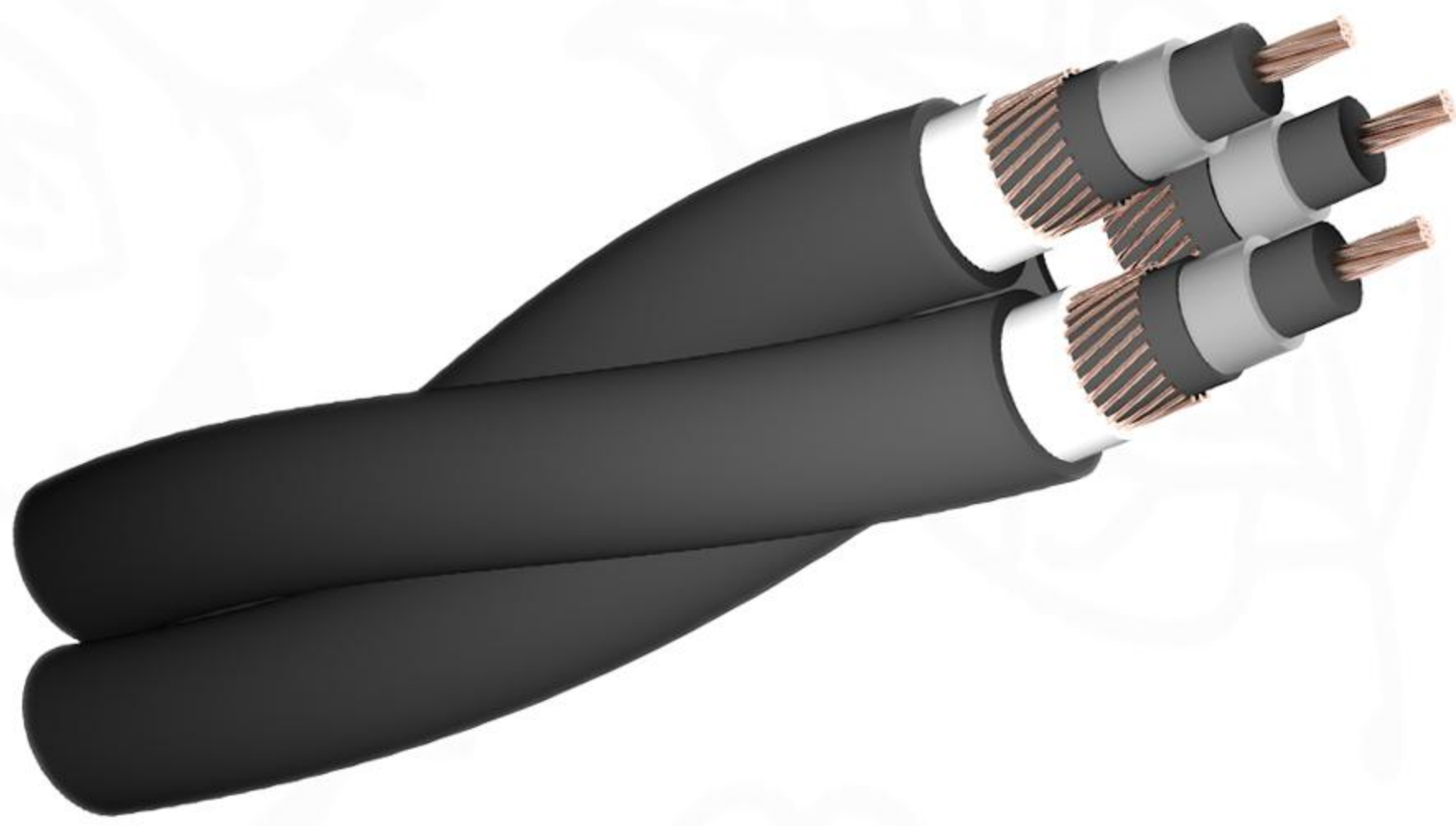




Cu(Al) 12.7/22 kV – Three Core Triplex Heavy Duty Screened Unarmoured MV CABLE

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:

12.7/22 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 ∅	mm	kg/km	kN	mm	mm
3 × 50	5.5	20.5	23/1.35	64.8	2950	7.5	940	630
3 × 70	5.5	22	32/1.35	68.1	3610	11	1000	670
3 × 95	5.5	23.6	43/1.35	72.0	4440	14	1060	700
3 × 120	5.5	25.2	48/1.53	75.4	4980	18	1110	740
3 × 150	5.5	26.5	48/1.53	78.7	5360	23	1150	770
3 × 185	5.5	28.3	48/1.53	82.6	5830	25	1210	810
3 × 240	5.5	30.5	48/1.53	87.8	6500	25	1290	860
3 × 300	5.5	32.7	48/1.53	93.0	7230	25	1320	910
3 × 400	5.5	35.8	48/1.53	100.2	8290	25	1480	980
3 × 500	5.5	39	48/1.53	107.5	9520	25	1590	1060

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	0.144	14000	158	159
3 × 70	0.443	0.567	0.133	13000	191	196
3 × 95	0.320	0.409	0.126	11000	227	237
3 × 120	0.253	0.324	0.122	10000	257	271
3 × 150	0.206	0.263	0.118	9700	287	307
3 × 185	0.164	0.210	0.115	9000	317	344
3 × 240	0.125	0.161	0.110	8100	372	411
3 × 300	0.100	0.128	0.107	7400	418	469
3 × 400	0.0778	0.102	0.103	6700	476	546
3 × 500	0.0619	0.0814	0.099	5900	538	680



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mm ²	mm	mm	nb x mm ∅	mm	kg/km	kN	mm	mm
3 × 35	5.5	19.2	24/1.35	61.6	3250	7.4	860	570
3 × 50	5.5	20.5	34/1.35	64.8	4230	11	920	610
3 × 70	5.5	22	48/1.35	68.1	5500	15	1000	670
3 × 95	5.5	23.6	48/1.35	72	6200	20	1040	690
3 × 120	5.5	25.2	48/1.35	75.4	7160	25	1090	730
3 × 150	5.5	26.5	48/1.35	78.7	8070	25	1140	760
3 × 185	5.5	28.3	48/1.35	82.6	9250	25	1200	800
3 × 240	5.5	30.5	48/1.35	87.8	10800	25	1280	850
3 × 300	5.5	32.7	48/1.35	93.0	12750	25	1350	900
3 × 400	5.5	35.8	48/1.35	100.2	15400	25	1450	970
3 × 500	5.5	39	48/1.35	107.5	18600	25	1590	1060

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	0.139	11000	145	135
3 × 50	0.387	0.494	0.132	10000	172	165
3 × 70	0.268	0.342	0.123	8300	209	202
3 × 95	0.193	0.247	0.117	7800	252	248
3 × 120	0.153	0.196	0.113	6800	285	282
3 × 150	0.124	0.159	0.117	6300	318	315
3 × 185	0.099	0.128	0.114	5700	357	354
3 × 240	0.075	0.098	0.109	5200	408	408
3 × 300	0.06	0.079	0.106	4700	467	478
3 × 400	0.047	0.063	0.102	4200	524	539
3 × 500	0.037	0.051	0.099	3900	581	602