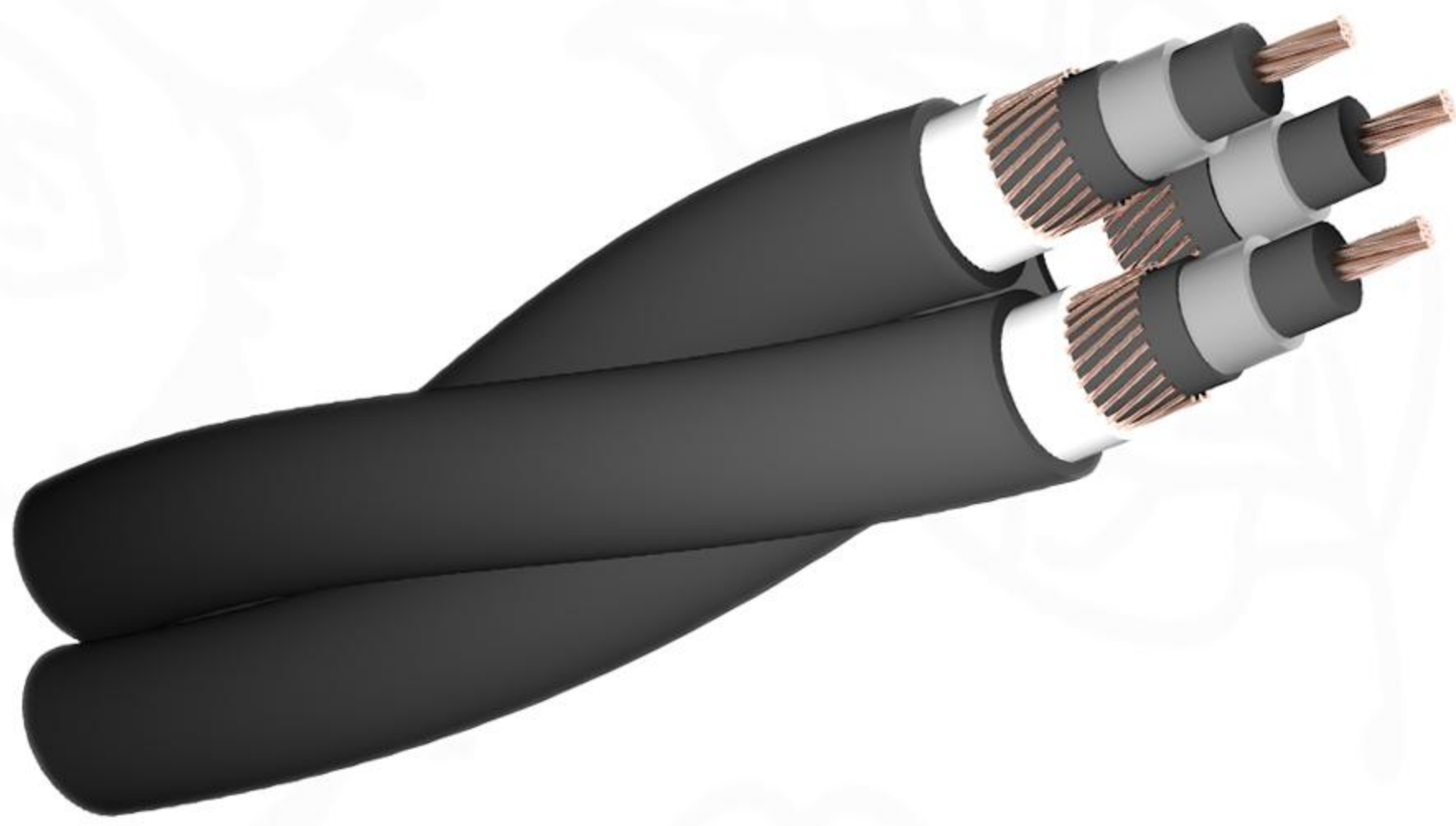




Al 12.7/22 kV – Three Core Triplex Light Duty Screened Unarmoured MV CABLE

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(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 3kA 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 3kA 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.



**Al 12.7/22 kV – Three Core Triplex Light Duty Screened Unarmoured MV CABLE****Physical Character Sheet (AL Conductor)**

Nominal conductor area	Nominal insulation thickness	Diameter over insulation	Number of screen wires and diameter of screen wires	Nominal over diameter triplex	Approx. weight
mm ²	mm	mm	nb x mm ø	mm	kg/km
3 × 35	5.5	19.2	36/0.85	59.4	2200
3 × 50	5.5	20.5	36/0.85	62.7	2570
3 × 70	5.5	22	36/0.85	65.9	2880
3 × 95	5.5	23.6	36/0.85	69.8	3050
3 × 120	5.5	25.2	36/0.85	73.3	3600
3 × 150	5.5	26.5	36/0.85	76.5	3980
3 × 185	5.5	28.3	36/0.85	80.4	4150
3 × 240	5.5	30.5	36/0.85	85.6	4800

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 × 35	0.868	1.113	0.149	15000	136	134
3 × 50	0.641	0.82	0.144	14000	158	160
3 × 70	0.443	0.567	0.133	13000	191	195
3 × 95	0.32	0.41	0.125	11000	234	242
3 × 120	0.253	0.324	0.122	10000	257	270
3 × 150	0.206	0.263	0.118	9700	317	345
3 × 185	0.164	0.211	0.114	9000	336	362
3 × 240	0.125	0.161	0.109	8100	389	427