

SANS Type 611 / 611-ECC 6.35/11 kV - 25mm² to 240mm²



Description

SANS Type 611 / 611-ECC 6.35/11 kV cable is a heavy-duty medium voltage flexible trailing line constructed with Class 5 flexible stranded tinned annealed copper conductors, high-grade EPR insulation, individual tinned copper and nylon composite screens, and a heavy-duty polychloroprene outer sheath reinforced with an open nylon braid. This exceptionally resilient cable features three screened power cores and three unscreened pilot cores arranged symmetrically around a semi-conductive rubber cradle center, making it the ideal solution for heavy-duty trailing and reeling applications on mobile electrical machinery, drilling rigs, and conveyors in hazardous mining environments.

The cable is manufactured to SANS 1520-2 for medium voltage flexible trailing cables used in mining operations, alongside material quality benchmarks SANS 1411-1 for conductor flexibility and SANS 1411-3 for advanced rubber insulation and sheathing performance. The cable provides dependable, safe power distribution in the most demanding hazardous and heavy industrial environments where excellent resistance to flame retardancy, UV light, ozone, and industrial oils is required.

SANS Type 611 cable should be installed with a minimum bending radius of 9 times the overall cable diameter during handling and active dynamic operations. It is designed to safely operate within a temperature envelope of -25°C to +90°C.

Key Features



Voltage Rating
6.35/11 (12)kV



Minimum Bending Radius
9X Overall Diameter



Temperature Limits
Temperature Range: -25°C to +90°C

Standards

- SANS 1520-2
- SANS 1411-1
- SANS 1411-3

Construction

- **Conductor:** Class 5 tinned copper
- **Conductor Screen:** Semi-Conductive material
- **Insulation:** Ethylene Propylene Rubber (EPR) with a strippable, semi-conductive, triple extruded core screen
- **Insulation Screen:** Tinned Copper Wire Braid (TCWB)
- **Inner Sheath:** Polychloroprene (CR), Type RS-6
- **Braiding:** Nylon Braid (PA)
- **Outer Sheath:** Polychloroprene (CR), Type RS-6
- **Sheath Colour:** Black

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

SANS Type 611 / 611-ECC 6.35/11 kV - 25mm² to 240mm² - Dimensions

Reference	Conductor Size (mm2)	Pilot Cond Size	Overall Diameter(mm)	Weight(Kg/Km)
TYPE611SANS11KV25	25	10	50.50	410
TYPE611SANS11KV35	35	10	52.30	450
TYPE611SANS11KV50	50	10	59.20	530
TYPE611SANS11KV70	70	16	60.40	645
TYPE611SANS11KV95	95	16	64.90	800
TYPE611SANS11KV120	120	16	71.20	970
TYPE611SANS11KV150	150	25	75.00	1065
TYPE611SANS11KV185	185	25	83.10	1330
TYPE611SANS11KV240	240	25	85.20	1470

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