

SANS Type 622 / 622-ECC 12.7/22 kV - 25mm² to 150mm²



Description

The SANS Type 622 / 622-ECC 12.7/22 kV cable is a premium medium voltage flexible trailing line manufactured with Class 5 flexible stranded tinned annealed copper conductors, robust 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 is purpose-built to withstand severe abrasion, impact, and continuous mechanical stress, making it the ideal solution for heavy-duty trailing and vertical reeling applications on mining equipment, draglines, shovels, and mobile power supplies.

The range fully satisfies the stringent design and manufacturing protocols of SANS 1520-2 for 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. Featuring a standard rated voltage of 12.7/22kV, this cable provides dependable, safe power distribution in the most demanding hazardous and heavy industrial environments.

The cable is to be installed with a minimum bending radius of 9 times the overall cable diameter during active dynamic reeling and dragging operations. It is designed to safely operate within a temperature envelope of -25°C to +90°C, ensuring that all high-voltage terminations are completed using compatible heavy-duty trailing accessories and executed by certified personnel.

Key Features



Voltage Rating
12.7/22 (24)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
- **Insulation:** Ethylene Propylene Rubber (EPR)
- **Inner Sheath:** Polychloroprene (CR)
- **Braiding:** Nylon Braid (PA)
- **Outer Sheath:** Polychloroprene Rubber (CR)
- **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 622 / 622-ECC 12.7/22 kV - 25mm² to 150mm² - Dimensions

Reference	Conductor Size (mm2)	Pilot Cond Size	Overall Diameter(mm)	Weight(Kg/Km)
TYPE622SANS22KV25	25	10	60.40	550
TYPE622SANS22KV35	35	10	64.60	640
TYPE622SANS22KV50	50	10	68.60	715
TYPE622SANS22KV70	70	16	72.40	830
TYPE622SANS22KV95	95	16	77.00	955
TYPE622SANS22KV120	120	16	81.30	1100
TYPE622SANS22KV150	150	25	85.30	1240

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.