



TRUSTED NOT TO COMPROMISE

# 69 kV CCV LINE

FOR MEDIUM VOLTAGE (MV) CABLES  
1<sup>ST</sup> TIME IN PAKISTAN



A member of





To ensure the highest quality and efficiency for Medium Voltage (MV) Cables, Pakistan Cables brings cutting edge German technology in the form of the TROESTER® MV CCV Line for the first time in Pakistan. Pakistan Cables is also the first to introduce the highest voltage CCV line in Pakistan, by introducing a 69 kV CCV line.

## KEY FEATURES

- Our extensive Medium Voltage Cable ranges from 6 kV, 10 kV, 15 kV, 20 kV, and 30 kV, all the way up to our highest capability of 69 kV in Pakistan.
- Proven German technology for in-line dry curing.
- Fast product changes matched with high production speed ensure timeliness.
- Efficient sag control system for superior accuracy.
- Triple head extrusion to ensure superior quality of extrusion and uniform bonding.
- Fully automatic compound handling system ensuring a contamination free line, an absolute essential for superior quality product.
- Fully computerized auto cure control system which controls all driving parameters to achieve curing of extruded materials.
- In line SIKORA-X RAY Unit for checking concentricity, thickness, ovality and overall diameter of all three layers of insulation.
- Highly skilled engineers incorporate innovative developments and experience directly in the machine components like extruders, extruder heads, CCV tubes, cable machinery and line controls.



## Processing of XLPE

Depending on the cable characteristics, customers specify XLPE. The CCV Line cross linking the cable in nitrogen environment under pressure and temperature cooling can then be carried out using water and nitrogen as well. Consequently, cable manufacturers have maximum flexibility when producing high quality cables.

## In-line Dry Curing Process

Pakistan Cables employs in-line drying curing for its CCV lines along with state-of-the-art triple cross head extrusion where the conductor screen, Insulation and Insulation Screen are extruded simultaneously by means of a Triple Cross Head which has following advantages:

- Reduces micro voids and moisture content in insulation and ensures enhanced and stable breakdown strength and uniform insulation structure.
- Ensures extremely accurate layer thickness.
- Ensures high purity in the frontier limit between the semi conductive layers and the insulation.
- Provides optimal fusion of the individual layers without contamination.
- Ensures a firm bond and smooth interface between each layer thus improving electrical properties.
- Prevents unforeseen damage to the conductor or insulation screen during manufacturing process.

## Quality Control

- Very strict quality control during processing using SIKORA-X-RAY unit for thickness measurement in continuous mode for all extruded layers.
- Recording of trends enabled after every two seconds.
- The unit continuously scans 360° geometry of the cable and displays maximum, minimum and eccentricity of all three layers separately.



# ABOUT TROESTER®

Proven engineering excellence, the TROESTER® CCV line, is an outcome of decades of dedication in the Extrusion industry; a befitting choice for Pakistan Cables as an industry pioneer in Pakistan. The world renowned TROESTER® CCV line set up exclusively at the new Pakistan Cables Nooriabad factory is focused on manufacturing highly efficient product range of High to Medium Voltage Cables possible.

The Company's world class and highly integrated manufacturing facility at Nooriabad boasts various sophisticated cable manufacturing technologies with rigorous quality control and assurance facilities reflected in its trusted range of product solutions, both at home and abroad.



## Quality Assurance

At Pakistan Cables, our commitment to quality is central to our vision. We have a proven track record of meeting our customers' needs, making us Pakistan's most trusted wire and cable brand. We source premium materials from top international suppliers, including XLPE and copper from industry leaders. All raw materials undergo rigorous quality testing before use. Our products meet and exceed design specifications, and they have been type-tested by international agencies like KEMA, Netherlands. We also conduct regular in-house type tests to ensure consistent quality.

## HVT Lab

Our commitment to excellence extends beyond production, as we take pride in our cutting-edge High Voltage Testing (HVT) Laboratory. This facility showcases our unwavering dedication to quality and safety, equipped with world-class, internationally compliant testing equipment. With this facility, we ensure that every cable we produce meets or exceeds international standards, delivering top-notch products that power the nation.





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