



TXRE 20(24)KV



-15°C min



90°C max



Armoured



Halogen-free



Weather-resistant

TXRE is a robust, armoured medium voltage submarine cable designed for reliable power distribution in demanding environments. Engineered for installation in water, soil and air, TXRE combines excellent electrical performance with high mechanical strength, making it suitable for utility, industrial and renewable energy applications.

The cable features compact stranded copper conductors, extruded semi-conductive screens and XLPE insulation to ensure long term electrical reliability and stable operating performance. Three insulated cores are stranded together with fillers and secured by a reinforced semi-conductive tape, providing a compact and durable cable construction.

A concentric layer of galvanized steel wire armouring delivers superior mechanical protection during installation and operation, particularly in underwater and exposed environments. The UV resistant HDPE outer sheath provides additional protection against moisture, abrasion and environmental degradation.

Designed in accordance with IEC 60502-2, TXRE offers a maximum continuous operating temperature of +90°C and can withstand short circuit temperatures up to +250°C. Its robust design and proven materials ensure dependable performance and long service life in critical power distribution networks.

APPLICATION

- Submarine power distribution
- Distribution networks across rivers, lakes and coastal areas
- Renewable energy installations
- Industrial power supply systems
- Utility infrastructure projects

STANDARDS

Conductor

IEC 60228 Class 2

APPROVAL



CONSTRUCTION

Armouring

Concentrically stranded annealed galvanized steel wires

Color

BLACK

Conductor

Stranded, circular compacted copper acc. to IEC 60228 class2,

Insulation

XLPE

Labeling example

TXRE 3X25 20(24)kV YY-MM, AMOKABEL-K" + meter markings

Outer sheath

HDPE UV resistant

Packaging

DRUM

Screening

Extruded layer of semi-conductive cross-linked polyethylene

Bending radius - Minimum

15 xOD

PROPERTIES

Max. Short circuit temperature

+250



PROPERTIES

Max temperature

90 °C

Min. temperature

-15 °C

UV resistance

Yes

AC Voltage rating U_0/U (U_m)

12/20(24)kV

INSTALLATION METHODS

Buried

Outdoor

In air

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Name	Construction	AC voltage rating	DC resistance [Ω/km]	Outer diameter [mm]	Total weight [kg/km]
TXRE 3x25 (20)24kV	3x25mm²	12/20(24)kV	0.727	57	4402

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