GULIX CABLE

POWERING POSSIBILITIES

LT XLPE POWER CABLES

1.1 kV Grade • Aluminium / Copper Conductor • Armoured & Un-armoured Options

POWERING POSSIBILITIES

Product brochure prepared for website use. Technical values are indicative and should be confirmed against approved drawings, test certificates and applicable standards before ordering.

Gulix Cable LT XLPE Cable Range

Gulix Cable LT XLPE Power Cables are designed for dependable low-voltage power distribution in industrial, commercial, residential and infrastructure installations. The range is suitable for feeder circuits, distribution panels, utilities, plants, buildings and general power supply applications where safe current carrying capacity, mechanical protection and long service life are required.

The brochure content is written uniquely for Gulix Cable while using the supplied reference catalogue only for industry-standard structure, terminology and typical cable parameters.

Key Advantages of XLPE Insulation

- Higher current carrying capacity compared with conventional thermoplastic insulation under similar installation conditions.
- Excellent short-circuit withstand capability and stable performance during emergency loading.
- Low dielectric losses, good insulation resistance and improved electrical reliability.
- Better resistance to moisture, chemicals, oils and corrosive industrial environments.
- Thermoset insulation structure helps maintain dimensional stability at elevated operating temperatures.
- Long service life with robust outer sheath options for demanding site conditions.

Applicable Standards & Construction Basis

Parameter	Gulix Cable LT XLPE Offering
Voltage grade	1.1 kV / 1100 V grade
Applicable standard	Generally aligned with IS 7098 (Part 1) for XLPE insulated LT power cables
Conductor	Aluminium or Copper conductor, solid / stranded / compacted, as per Class 2 of IS 8130 where applicable
Insulation	XLPE compound suitable for LT power cable duty
Core identification	Single core or multi-core identification as per standard practice / customer requirement
Inner sheath	PVC / HR PVC / FR / FRLS compound options
Armouring	Galvanised steel strip/wire for multi-core; aluminium wire/strip option for single-core AC systems
Outer sheath	PVC / HR PVC / FR / FRLS / other project-specific sheath options
Colour	Black as standard; other colours subject to requirement and feasibility

Cable Construction

1	**Conductor**	Aluminium / Copper conductor designed for efficient power transmission.
2	**XLPE Insulation**	Cross-linked polyethylene insulation for thermal stability and electrical performance.
3	**Laying Up**	Cores laid together with fillers where required to maintain roundness and compact construction.
4	**Inner Sheath**	Bedding layer that supports armouring and protects insulated cores.
5	**Armour**	Mechanical protection for direct burial, trays, ducts and industrial routing conditions.
6	**Outer Sheath**	Final protective covering with FR / FRLS / HR options as per project requirement.

Typical Product Range

Type	Typical size range	Common use
Single Core XLPE	10 sq.mm to 1000 sq.mm	Main feeders, panels, substations and high-current runs
2 Core XLPE	6 sq.mm to 630 sq.mm	Single-phase power distribution and equipment supply
3 Core XLPE	6 sq.mm to 630 sq.mm	Three-phase motors, machinery and distribution boards
3.5 Core XLPE	3C + reduced neutral sizes	Three-phase systems with neutral conductor
4 Core XLPE	6 sq.mm to 630 sq.mm	Three-phase + neutral distribution applications
Control Cable XLPE	1.5 / 2.5 sq.mm multi-core options	Control panels, relay circuits and automation wiring

Applications

Power distribution networks • Industrial plants • Commercial buildings • Residential complexes • Utilities and substations • Motor feeders • Cable trays, ducts and trenches • Infrastructure and project sites

Quality & Testing Focus

- Routine testing of finished cable lots as per relevant specification and customer-approved quality plan.
- Dimensional checks for conductor, insulation, sheath thickness and overall diameter.
- Electrical checks such as conductor resistance, insulation resistance and high-voltage withstand where applicable.
- Visual inspection for marking, sheath finish, drum packing and identification.
- Traceability through cable marking, drum details and dispatch documentation.

Selection Guidance

- Select cable size based on load current, voltage drop, short-circuit level, installation method and ambient temperature.
- Apply derating factors for grouping, soil temperature, thermal resistivity, duct/tray installation and site-specific conditions.
- Choose armoured construction where mechanical protection or direct-burial suitability is required.
- Use FR / FRLS sheath options for indoor, public-access or fire-sensitive locations as per project requirement.
- Confirm final cable schedule with consultant / electrical designer before procurement.

Handling & Storage

- Store drums on firm, level ground and keep them protected from standing water.
- Roll drums only in the direction indicated on the drum flange.
- Use proper lifting equipment; avoid dropping drums from vehicles or platforms.
- Seal cable ends after cutting to prevent moisture ingress.
- Maintain minimum bending radius during installation and pulling.

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Website-ready LT XLPE Cable brochure
For enquiry, add your sales email / phone / address here.