

1 – 4 CORE

LT & XLPE Cables

XLPE insulated power cable to IS 7098 — aluminium or copper, single through four core including the 3.5-core reduced-neutral construction, armoured or unarmoured, at a thousand kilometres a month.

CORES	OUTPUT	STANDARD
1, 3, 3.5 and 4	1,000 km a month	IS 7098 (Part 1)



Cable hall

Where the chain widened.

LT cable was the second product line the business added, back when it made only poles. It is now a 1,000 kilometre a month operation, and it underpins the underground cable work we are known for in the field.

Because we lay cable as well as make it, the specification we manufacture to is the one we then have to install, joint and commission ourselves. That tends to concentrate the mind on the things that matter — insulation wall consistency, armour quality and drum handling.

1,000 km / month

Sustained cable output.

1, 3, 3.5 & 4 core

Including the India-specific reduced-neutral construction.

We lay it too

Underground cable execution capability in-house.

UTILITY

Underground distribution

LT and 11 kV underground distribution networks.

URBAN

Network conversion

Overhead-to-underground conversion schemes.

INDUSTRY

Plant distribution

Internal plant and industrial estate cabling.

INFRASTRUCTURE

Developments

Township, warehousing and commercial development supply.

Fields marked "On enquiry" are issued against a specific enquiry. Full specification, reference tables and fittings: aggarwalglobal.com/products/cables.html

GENERAL

Product	XLPE insulated, PVC sheathed power cable
Voltage grade	1100 V (1.1 kV) grade; HT grades 3.3 kV to 33 kV to order
Conductor	Aluminium or copper, Class 2 stranded to IS 8130
Cores	1, 3, 3.5 and 4 core
Size range	Aluminium power cable from 4 sq.mm upwards; copper control cable 1.5 to 4 sq.mm
Armouring	Galvanized steel round wire or flat strip to IS 3975, or unarmoured
Outer sheath	PVC ST1 (70 °C) or ST2 (90 °C) to IS 5831
Standard	IS 7098 (Part 1) for 1.1 kV; IS 7098 (Part 2) for 3.3–33 kV; IEC 60502-1 for export
Monthly capacity	1,000 km

ELECTRICAL

Maximum conductor temperature	90 °C continuous; 250 °C short circuit
Core identification	3-core red/yellow/blue; 4-core red/yellow/blue/black; reduced neutral black
HT screening	Extruded semiconducting conductor and insulation screens above 1.9/3.3 kV
Screen resistivity	Conductor screen $\leq 1000 \Omega \cdot m$; insulation screen $\leq 500 \Omega \cdot m$
Metallic screen	Non-magnetic — copper tape or wire, or aluminium

STANDARDS

IS 7098 (Part 1):1988	XLPE insulated PVC sheathed cables up to and including 1100 V
IS 7098 (Part 2):2011	XLPE insulated cables above 1100 V up to and including 33 kV
IS 1554 (Part 1):1988	PVC insulated heavy duty cables up to 1100 V
IS 8130:2013	Conductors for insulated cables and flexible cords
IS 3975:1999	Mild steel wires, formed wires and tapes for armouring of cables
IS 5831:1984	PVC insulation and sheath of electric cables
IS 10810 (parts)	Methods of test for cables
IS 3961 (Part 5)	Recommended current ratings for PVC and XLPE insulated cables

ROUTINE TESTS ON EVERY UNIT

- Conductor resistance
- High voltage test
- Partial discharge on every screened length (HT)



ENQUIRIES

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Delivery as per the client's requirement, confirmed with the quotation. Ex Factory or FOB for export.