GULIX
CABLE
POWERING POSSIBILITIES

GULIX OVERVIEW

Gulix Cable Pvt. Ltd. is a **technology-driven** cable manufacturer delivering reliable and innovative cable solutions for critical industries and infrastructure.

RAILWAYS | RENEWABLE ENERGY | INDUSTRIAL & PROCESS PLANTS | DEFENCE | TELECOM | INFRASTRUCTURE | OEMs & EPC

OUR CABLE SOLUTIONS

LV POWER CABLES
Reliable power distribution for industrial & commercial applications

CONTROL CABLES
Precision control and automation for modern industrial systems

INSTRUMENTATION CABLES
Accurate signal transmission for critical process applications

SIGNALLING CABLES
Safe & dependable signalling solutions for infrastructure & transportation

SOLAR CABLES
UV & weather resistant cables for solar energy systems

WIND APPLICATION CABLES
Engineered for wind energy systems with high reliability & endurance

ELASTOMERIC CABLES
Flexible, durable & robust cables for harsh environments

SPECIAL APPLICATION CABLES
Customized cable solutions for unique and demanding applications

TECHNOLOGY DRIVEN | QUALITY ASSURED | APPLICATION FOCUSED | SUSTAINABLE SOLUTIONS

www.gulixcable.com

GULIX
CABLE
POWERING POSSIBILITIES

MANUFACTURING FACILITIES

- Vast experience in Cable manufacturing since **2017**.
- A vast manufacturing infrastructure of **50,000** Sq. Ft.
- Manufacturing Facility at **Bhiwadi, Rajasthan**

Our Product Range Includes
all types of LV Cables, Control Cables, Instrumentation Cables, E-Beam Irradiated Cables, Railway Cables, Defence Cables.

Technology Driven | Quality Assured | Customer Focused | Sustainable Solutions | Powering Progress Sustainably

GULIX CABLE

POWERING POSSIBILITIES

COMPLETE RANGE OF ARMOURED & UNARMOURED

LV CABLES

UP TO 1.1 kV

At Gulix Cable, we manufacture a wide range of Armoured and Unarmoured LV Cables engineered for safety, reliability and superior performance. Built with high-grade materials and advanced technology, our cables are trusted across industries for powering a stronger tomorrow.

- SAFE & RELIABLE
- DURABLE & FLEXIBLE
- FLAME RETARDANT
- HIGH REFFORMANCE
- QUALITY ASSURED

CONFORMS TO

- IS 7098 (Part 1)
- IS 1554 (Part 1)
- IEC 60502 (Part 1)
- EN 50525 / EN 60228

LV CABLES UP TO 1.1 kV

OUR CABLE RANGE

ARMOURED CABLES

- Power Cables
- Control Cables
- Instrumentation Cables
- Aluminium / Copper Conductor
- PVC / XLPE / LSZH Insulation
- Steel Wire / Strip Armouring
- Indoor, Outdoor & Direct Burial Applications

UNARMOURED CABLES

- Power Cables
- Control Cables
- Instrumentation Cables
- Flexible Cables
- Aluminium / Copper Conductor
- PVC / XLPE / LSZH Insulation
- Indoor & Outdoor Applications

WIDE RANGE OF APPLICATIONS


INDUSTRIAL PLANTS


COMMERCIAL BUILDINGS


INFRASTRUCTURE PROJECTS


POWER DISTRIBUTION


RAILWAY & METRO


RENEWABLE ENERGY (SOLAR)


WIND ENERGY PROJECTS


RESIDENTIAL BUILDINGS


CONTROL PANELS & SWITCHGEAR


OEM & PANEL APPLICATIONS


PUMPING STATIONS


WATER TREATMENT PLANTS

CABLE CONSTRUCTION

- Finely Stranded Copper / Aluminium Conductor
- PVC / XLPE / LSZH Insulation
- PVC / XLPE / LSZH Inner Sheath (Optional)
- Steel Wire / Strip Armouring (For Armoured Cables)
- PVC / FR-LSZH Outer Sheath

QUALITY ASSURED. PERFORMANCE GUARANTEED.

Every meter of Gulix Cable is manufactured and tested to ensure uncompromised quality, safety and long service life.

- 50,000+ Sq. Ft. Manufacturing Infrastructure
- Advanced Machinery & Technology
- Stringent Quality Control at Every Stage
- Skilled Team & Technical Expertise
- Commitment to Safety, Quality & Sustainability

GULIX CABLE PRIVATE LIMITED

Bhiwadi, Rajasthan, India

www.gulixcable.com

BUILT FOR TODAY. POWERING TOMORROW.

GULIX CABLE
POWERING POSSIBILITIES

CONTROL CABLES
UP TO 61 CORES

IN XLPE / PVC TYPE | ARMOURED & UNARMOURED

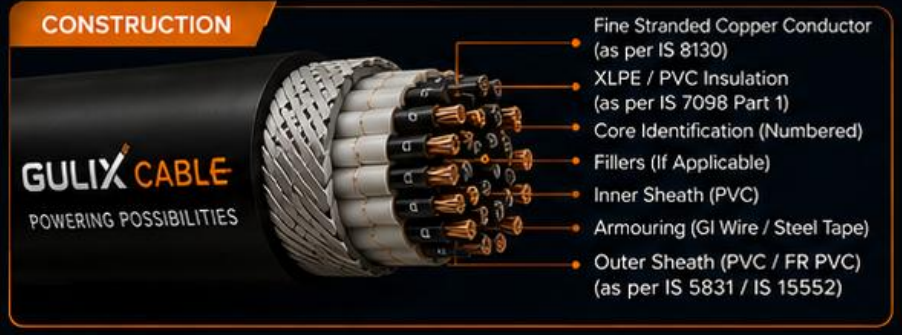
Gulix Control Cables are designed for reliable signal transmission and control in industrial automation, machinery and process control applications. Available in XLPE/PVC insulation with armoured and unarmoured construction up to 61 cores.

RELIABLE CONTROL.
PRECISE PERFORMANCE.
BUILT TO LAST.

UP TO 61 CORES | ARMOURED & UNARMOURED

- PRECISE SIGNAL TRANSMISSION
- RELIABLE & SAFE OPERATION
- FLEXIBLE & DURABLE
- ARMOURED PROTECTION
- FLAME RETARDANT & SAFE

CONSTRUCTION



1. Fine Stranded Copper Conductor (as per IS 8130)
2. XLPE / PVC Insulation (as per IS 7098 Part 1)
3. Core Identification (Numbered)
4. Fillers (If Applicable)
5. Inner Sheath (PVC)
6. Armouring (GI Wire / Steel Tape)
7. Outer Sheath (PVC / FR PVC) (as per IS 5831 / IS 15552)

TECHNICAL SPECIFICATIONS

Cable Type	Control Cables
No. of Cores	Upto 61 Cores
Conductor	Fine Stranded Annealed Copper as per IS 8130
Insulation	XLPE / PVC as per IS 7098 (Part 1)
Core Identification	Black cores with white numbering
Inner Sheath	PVC
Armouring (Optional)	GI Wire Armour / Steel Tape Armour
Outer Sheath	PVC / FR PVC as per IS 5831 / IS 15552
Voltage Grade	Upto 1100 V
Applications	Industrial Automation, Process Control, Machine Tools, Control Panels, Power & Control Systems

APPLICATIONS


INDUSTRIAL AUTOMATION


CONTROL PANELS & SWITCHGEAR


MACHINE TOOLS & EQUIPMENT


PROCESS CONTROL SYSTEMS


POWER & CONTROL SYSTEMS


BUILDING MANAGEMENT SYSTEMS


WATER & WASTE WATER PLANTS


SOLAR & RENEWABLE ENERGY SYSTEMS

CONFORMS TO INTERNATIONAL & INDIAN STANDARDS

- IS 7098 (Part 1)
- IS 1554 (Part 1)
- IEC 60502 (Part 1)
- EN 50525 / EN 60228
- IS 8130
- IS 5831 / IS 15552

HIGH FLEXIBILITY & DURABILITY | OIL & CHEMICAL RESISTANT | UV & WEATHER RESISTANT | WIDE OPERATING TEMPERATURE

QUALITY ASSURED.
PERFORMANCE GUARANTEED.

GULIX CABLE
POWERING POSSIBILITIES

ACCURACY. RELIABILITY.
PERFORMANCE.
BUILT TO MEASURE.

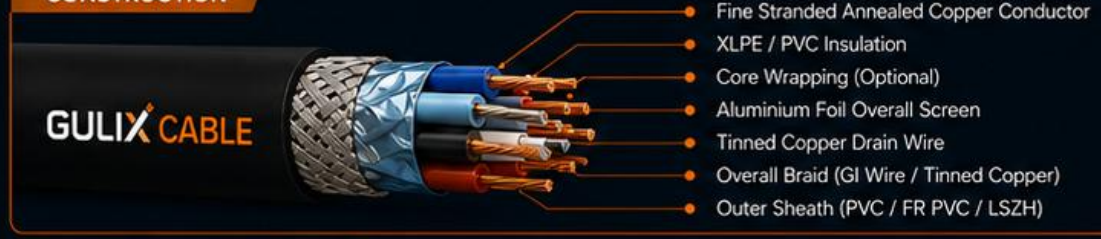
INSTRUMENTATION CABLES

RELIABLE SIGNAL TRANSMISSION. PRECISE CONTROL.

Gulix Instrumentation Cables are designed to transmit accurate and interference-free signals in critical measurement and control applications. Manufactured with high quality materials and advanced technology to ensure reliability, stability and long service life in the most demanding environments.

- EXCELLENT NOISE IMMUNITY
- PRECISE SIGNAL TRANSMISSION
- WIDE OPERATING TEMPERATURE
- FLEXIBLE & EASY INSTALLATION
- RELIABLE & LONG LASTING

CONSTRUCTION



- Fine Stranded Annealed Copper Conductor
- XLPE / PVC Insulation
- Core Wrapping (Optional)
- Aluminium Foil Overall Screen
- Tinned Copper Drain Wire
- Overall Braid (GI Wire / Tinned Copper)
- Outer Sheath (PVC / FR PVC / LSZH)

TYPE / CONFIGURATION

PAIR	TRIPLE	QUAD	MULTI-PAIR / MULTI-TRIPLE	CUSTOM CONFIGURATIONS
(Screened / Unscreened)	(Screened / Unscreened)	(Screened / Unscreened)	(Overall Screened)	Available on Request

TECHNICAL SPECIFICATIONS

Cable Type	Instrumentation Cables
Core Configuration	Pair / Triple / Quad / Multi-pair / Multi-triple
Conductor	Fine Stranded Annealed Copper as per IS 8130
Insulation	XLPE / PVC as per IS 7098 (Part 1)
Core Identification	As per pair / triple / quad color code
Screening	Aluminium Foil Overall Screen with Tinned Copper Drain Wire
Armouring (Optional)	GI Wire Braid / Steel Wire Braid
Outer Sheath	PVC / FR PVC / LSZH as per IS 5831 / IS 15552 / IEC 60754
Voltage Grade	300 / 500 V, 500 V, 1.1 kV
Temperature Range	-20°C to +70°C (PVC), -20°C to +90°C (XLPE)
Applications	Process Control, Instrumentation, Measurement, Automation, Chemical, Oil & Gas, Power, Petrochemical, Water Treatment, Pharmaceuticals, etc.

CONFORMS TO

- IS 7098 (Part 1)
- IS 1554 (Part 1)
- IEC 60502 (Part 1)
- IEC 60228
- IEC 60754
- EN 50525 / EN 50288
- RoHS Compliant

UP TO 61 CORES

ARMOURED & UNARMOURED

APPLICATIONS

PROCESS CONTROL | INDUSTRIAL AUTOMATION | OIL & GAS | CHEMICAL & PETROCHEMICAL | POWER PLANTS | WATER & WASTE WATER TREATMENT | PHARMACEUTICALS | BUILDING MANAGEMENT

RoHS COMPLIANT

IS 7098 (Part 1) COMPLIANT

FLAME RETARDANT AS PER IEC 60332-1

QUALITY ASSURED. PERFORMANCE GUARANTEED.

GULIX CABLE
POWERING POSSIBILITIES

SOLAR CABELS

2.5 SQ.MM UPTO 400 SQ.MM

ENGINEERED FOR HIGH PERFORMANCE.
BUILT FOR A SUSTAINABLE FUTURE.

Gulix Solar Cables are specially designed for photovoltaic power systems. Manufactured with advanced materials and rigorous quality control to ensure maximum safety, long life and excellent performance in harsh environmental conditions.

- UV, OZONE & WEATHER RESISTANT
- WIDE OPERATING TEMPERATURE -40°C to +120°C
- HIGH VOLTAGE DC RATING 1.5 kV DC
- WATER & MOISTURE RESISTANT
- FLAME RETARDANT & HALOGEN FREE LOW SMOKE
- FLEXIBLE & EASY TO INSTALL
- RELIABLE & LONG LIFE PERFORMANCE

- WIDE OPERATING TEMPERATURE -40°C to +120°C
- HIGH VOLTAGE DC RATING 1.5 kV DC
- WATER & MOISTURE RESISTANT
- FLAME RETARDANT & HALOGEN FREE LOW SMOKE
- FLEXIBLE & EASY TO INSTALL
- RELIABLE & LONG LIFE PERFORMANCE

CONFORMS TO
- EN 50618
- IS 17293
- IEC 62930

CONSTRUCTION

- Tinned Annealed Copper Conductor (Class 5 as per IEC 60228)
- Insulation (EB-XLPO) (Electron Beam Cross Linked)
- Outer Sheath (EB-XLPO) Halogen Free, UV & Weather Resistant

WHAT IS EB-XLPO ?

Electron Beam (EB) cross linked XLPO is a high performance insulation & sheath material. It offers superior mechanical strength, high thermal endurance (-40°C to +120°C), enhanced resistance to UV, ozone, weathering and chemical corrosion, ensuring longer life and reliability in solar applications.

EB-XLPO ADVANTAGES

- High UV & Weather Resistance
- Wide Operating Temperature (-40°C to +120°C)
- Superior Mechanical & Abrasion Resistance
- Halogen Free, Low Smoke, Flame Retardant
- Excellent Electrical & Thermal Stability
- Longer Life in Harsh Outdoor Conditions

TECHNICAL SPECIFICATIONS

Product	Solar Cables (Photovoltaic Cables)
Cross Section Range	2.5 Sq.mm upto 400 Sq.mm
Cable Type	ATC / XLPO / XLPO-E / EB-XLPO
Voltage Rating	1.5kV DC (Max.)
Wide Operating Temperature	-40°C to +120°C (Max. conductor temperature)
Conductor	Tinned Annealed Copper, Class 5 as per IEC 60228
Insulation	EB-XLPO as per EN 50618 / IEC 62930
Outer Sheath	EB-XLPO as per EN 50618 / IEC 62930
Flame Retardant	IEC 60332-1-2
Standards	EN 50618, IS 17293, IEC 62930
Application	For use in Photovoltaic Power Systems, Solar Panels, Inverters & DC Applications

TYPE OPTIONS

ATC
Annealed Tinned Copper conductor with ATC Insulation & XLPO Sheath

XLPO
Cross Linked Polyolefin Insulation with XLPO Sheath

XLPO/XLPO
Cross Linked Polyolefin Insulation with XLPO Sheath (Double Insulated)

EB-XLPO (RECOMMENDED)
Electron Beam Cross Linked XLPO Insulation & Sheath (Wide Temp. -40°C to +120°C)

APPLICATIONS


SOLAR POWER PLANTS


ROOFTOP SOLAR SYSTEMS


INVERTERS & DC SYSTEMS


COMBINER BOX & DC DISTRIBUTION


MODULE STRINGING & INTERCONNECTIONS


UTILITY SCALE & DC APPLICATIONS

- HIGH QUALITY MATERIALS
- 100% QUALITY TESTED
- BEST PERFORMANCE IN EXTREME CONDITIONS
- SAFE, RELIABLE & MAINTENANCE FREE
- POWERING A GREENER TOMORROW

GULIX CABLE

POWERING POSSIBILITIES

TOWER CABLE / TORSIONAL CABLE

FOR WIND APPLICATION

Specially engineered for wind turbine systems where cables are subjected to continuous torsion, bending and dynamic stress. Designed to deliver exceptional reliability, flexibility and long service life in the most demanding environments.

ENGINEERED FOR WIND. BUILT TO PERFORM.

- High Flexibility & Torsion Resistance
- Excellent Mechanical Strength
- UV, Ozone & Weather Resistant
- Flame Retardant & Halogen Free
- Reliable Performance, Long Life

CONFORMS TO

- EN 50618
- IS 17293
- IEC 62930

- HIGH TORSION RESISTANCE ±180°/m
- WIDE OPERATING TEMPERATURE -40°C TO +120°C
- HIGH MECHANICAL STRENGTH & DURABILITY
- FLAME RETARDANT & HALOGEN FREE LOW SMOKE
- UV, OZONE & WEATHER RESISTANT
- RELIABLE & LONG SERVICE LIFE

CONSTRUCTION

- Flexible Annealed Copper Conductor (Class 5 / 6)
- XLPO / EPR Insulation
- Filler (if applicable)
- Inner Sheath (LSZH)
- Tinned Copper Braid Screen (High Coverage)
- Outer Sheath (LSZH / MDPE) Weather & Abrasion Resistant

TYPE OPTIONS

ATC
Annealed Tinned Copper conductor with ATC Insulation & LSZH Sheath

XLPO
Cross Linked Polyolefin Insulation with LSZH Sheath

EB-XLPO (RECOMMENDED)
Electron Beam Cross Linked XLPO Insulation & LSZH Sheath for superior thermal, mechanical & electrical performance

MULTI-CORE OPTIONS
Available in 2 to 25 cores with or without earth conductor

TECHNICAL SPECIFICATIONS

Parameter	Tower Cable / Torsional Cable
Application	Wind Turbine – Nacelle, Loop & Pitch Control Systems
Rated Voltage	Upto 1.1 kV AC / 1.5 kV DC
Temperature Range	-40°C to +120°C
Torsion Capability	±180°/m (Dynamic)
Bending Radius	As per standard / application requirement
Conductor	Tinned Annealed Copper, Class 5 as per IEC 60228
Insulation	XLPO / EPR as per EN 50618 / IEC 62930
Inner Sheath	LSZH
Outer Sheath	LSZH / MDPE
Flame Retardant	IEC 60332-1-2
Halogen Free	IEC 60754-1 & IEC 60754-2
Smoke Density	IEC 60754-1 & IEC 61034-2
Standards	IEC 62930, EN 50618, IS 17293
	Designed as per IEC 60502-1, IEC 62895-1 Wind Turbine Cables & Customer Specifications

APPLICATIONS


NACELLE CONNECTIONS


TORQUE LOOP / LOOP CONTROL


PITCH CONTROL SYSTEMS


INTER-TOWER CONNECTIONS

- ENGINEERED FOR EXTREME WIND CONDITIONS
- MAXIMUM RELIABILITY IN DYNAMIC APPLICATIONS
- TESTED FOR TORSION, FLEXING & BENDING PERFORMANCE
- STRICT QUALITY CONTROL & ROUTINE TESTING
- GLOBAL STANDARDS COMPLIANCE
- POWERING RENEWABLE ENERGY. POWERING TOMORROW.

GULIX CABLE
POWERING POSSIBILITIES

RAILWAY SIGNALLING CABLES

AS PER IRS S-63 & IRS S-76

Gulix Railway Signalling Cables are manufactured in accordance with Indian Railways Specifications IRS S-63 (PVC Insulated Cables) & IRS S-76, ensuring safe, anti-theft protection and reliable data transmission for all railway signalling and communication networks.

COMPLIANT TO INDIAN RAILWAYS SPECIFICATIONS

- **IRS S-63** (PVC Insulated Cables for Signalling & Telecommunication)
- **IRS S-76** (Signalling Cables for Electronic Interlocking)
- Ensures Safety, Anti-theft Protection & Reliable Data Transmission
- Tested for Harsh Railway Environment & Long Service Life

INDIAN RAILWAYS COMPLIANT

SAFE & RELIABLE SIGNALLING | ANTI-THEFT PROTECTION | HIGH DATA INTEGRITY | FLAME RETARDANT (FR) | LOW SMOKE (LS) | OIL & CHEMICAL RESISTANT | WEATHER & UV RESISTANT | LONG SERVICE LIFE

CONSTRUCTION (FLEXIBLE – CLASS 5 CONDUCTOR)

1. Flexible Annealed Copper Conductor (Class 5) (As per IS 8130)
2. PVC Insulation (Type TI 1) (As per IRS S-63 / S-76)
3. Core Identification (As per specification)
4. Cores Laid Up in Layers
5. Overall PVC Sheath (Type TM 1) (As per IRS S-63 / S-76)
6. Colour : Black (Standard)

TYPES OF SIGNALLING CABLES

CONDUCTOR CLASS : CLASS 5 FLEXIBLE (AS PER IS 8130)

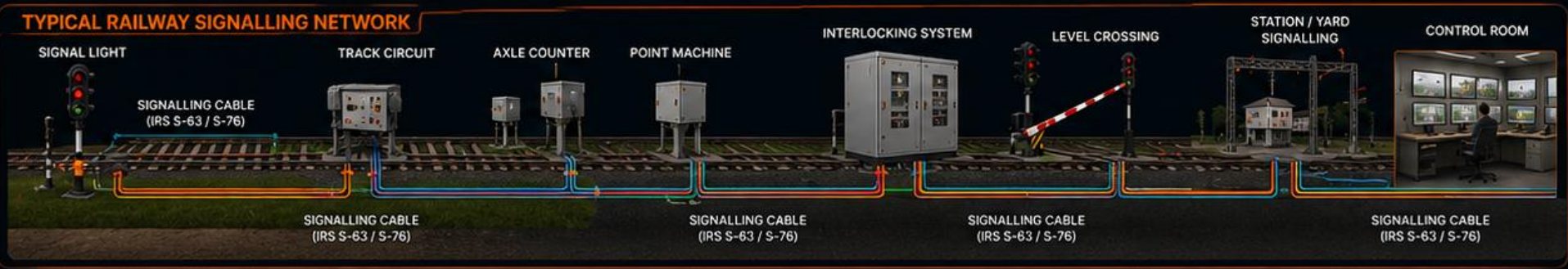
TECHNICAL SPECIFICATIONS

PARAMETER	IRS S-63	IRS S-76
Specification	IRS S-63	IRS S-76
Cable Type	PVC Insulated Signalling Cable	Signalling Cable for Electronic Interlocking
Conductor	Flexible Annealed Copper (Class 5 as per IS 8130)	Flexible Annealed Copper (Class 5 as per IS 8130)
Insulation	PVC (Type TI 1)	PVC (Type TI 1)
Core Identification	As per IRS S-63	As per IRS S-76
Core Arrangement	Pairs / Quads / Multi-core	Pairs / Quads / Multi-core
Sheathing	PVC (Type TM 1)	PVC (Type TM 1)
Rated Voltage	Up to 650 V AC / 1000 V DC	Up to 650 V AC / 1000 V DC
Test Voltage	2.5 kV AC for 1 minute	2.5 kV AC for 1 minute
Temperature Range	-20°C to +70°C	-20°C to +70°C
Flame Retardant	Yes (As per specification)	Yes (As per specification)
Application	Outdoor / Indoor Signalling & Telecommunication Circuits	Electronic Interlocking, Signalling & Data Circuits

Note: All tests are carried out as per relevant Indian Railways standards.

APPLICATIONS

TYPICAL RAILWAY SIGNALLING NETWORK



WHY GULIX SIGNALLING CABLES?

- 100% Flexible (Class 5) – Easy to install
- Compliant to IRS S-63 & IRS S-76
- Ensures Safety & Anti-theft Protection
- Reliable Data Transmission with low attenuation
- Designed for Harsh Railway Environment
- Long Service Life & Minimal Maintenance

GULIX CABLE
POWERING RELIABLE CONNECTIONS.
POWERING INDIAN RAILWAYS.

GULIX CABLE
POWERING POSSIBILITIES

LOCO WIRING & COACH WIRING CABLES

DESIGNED FOR INDIAN RAILWAYS.

Gulix Loco Wiring & Coach Wiring Cables are engineered as per latest RDSO specifications to deliver safe, reliable and uninterrupted performance in rolling stock applications. Built for high efficiency, durability and long service life in the most demanding environments.

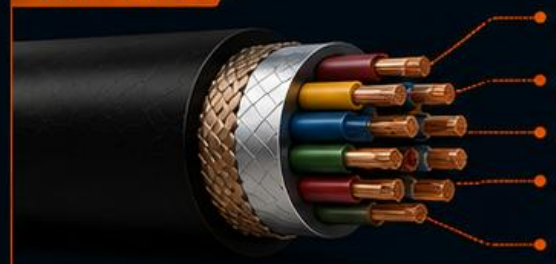
COMPLIANT TO

- RDSO Specification (Latest Issue)
- ELRS 0019 (Electrical Locomotive Rolling Stock Standard)
- CLW 0458 (Loco Wiring Cables)
- CLW 0459 (Coach Wiring Cables)
- Other Indian Railways Specifications

ENGINEERED FOR SAFETY.
BUILT FOR INDIAN RAILWAYS.

- HIGH RELIABILITY & SAFETY
- FLAME RETARDANT LOW SMOKE (FRLS)
- OIL, GREASE & CHEMICAL RESISTANT
- EXCELLENT ELECTRICAL PERFORMANCE
- WIDE OPERATING TEMPERATURE RANGE -40°C TO +90°C
- FLEXIBLE & EASY TO INSTALL
- LONG SERVICE LIFE & LOW MAINTENANCE

CONSTRUCTION



- Flexible Annealed Copper Conductor (Class 5 as per IEC 60228)
- Specially Compounded Elastomeric Insulation (EPR)
- Core Wrapping (Non-woven Tape)
- Overall Braid Shielding (Tinned Copper Wires)
- Outer Sheath (FRLS Compound) (Elastomeric / Thermoset)

TYPES & CONFIGURATIONS

UNSCREENED (MULTICORE) | SCREENED (T.C. BRAIDED) | OVERALL BRAIDED (HIGH FLEXIBILITY) | SINGLE CORE (FOR POWER CIRCUITS)

TECHNICAL SPECIFICATIONS

Parameter	LOCO WIRING CABLE (CLW 0458)	COACH WIRING CABLE (CLW 0459)
Standard	ELRS 0019	ELRS 0019
Voltage Grade	Up to 1100 V AC / 1500 V DC	Up to 1100 V AC / 1500 V DC
Conductor	Flexible Annealed Copper (Class 5)	Flexible Annealed Copper (Class 5)
Insulation	EPR (Ethylene Propylene Rubber)	EPR (Ethylene Propylene Rubber)
Core Identification	As per ELRS 0019	As per ELRS 0019
Separator	Non-woven Tape	Non-woven Tape
Shielding	Tinned Copper Braid	Tinned Copper Braid
Outer Sheath	FRLS (Flame Retardant Low Smoke)	FRLS (Flame Retardant Low Smoke)
Temperature Range	-40°C to +90°C	-40°C to +90°C
Flame Performance	Passes FRLS as per ELRS 0019	Passes FRLS as per ELRS 0019
Application	Electric Locomotives, MEMU/EMU, DMU & Auxiliary Power Circuits	Passenger Coaches, MEMU/EMU, DMU, Luggage Vans

APPLICATIONS & CABLE USAGE

LOCO WIRING (CLW 0458)

COACH WIRING (CLW 0459)

WHERE OUR CABLES ARE USED

AS PER ELRS 0019 | AS PER CLW 0458 (LOCO WIRING) | AS PER CLW 0459 (COACH WIRING) | RDSO COMPLIANT | 100% QUALITY TESTED | HIGH PERFORMANCE IN INDIAN RAILWAY ENVIRONMENTS

POWERING SAFER TRAINS. POWERING POSSIBILITIES.

GULIX CABLE
POWERING POSSIBLITIES

DATA CENTER CABLES

BUILT FOR SPEED. DESIGNED FOR RELIABILITY.

Gulix Data Center Cables are engineered with advanced materials and cutting-edge Electron Beam Cross Linked technology to deliver high speed performance, superior flexibility, maximum reliability and long service life for modern data centers.

KEY BENEFITS

- High Speed Data Transmission Up to 40G / 100G / 400G
- Low Smoke Zero Halogen (LSZH) for Enhanced Safety
- Electron Beam Cross Linked Technology for Superior Performance
- High EMC Protection for Noise Free Performance
- Flame Retardant & Fire Safe
- RoHS Compliant & Environment Friendly
- Reliable Performance for 24x7 Operations

100% FLEXIBLE (CLASS 5) CONDUCTORS

100% FLEXIBLE ALUMINIUM CONDUCTOR (CLASS 5 - FINE STRANDED)

FLEXIBLE CABLES FOR MODERN DATA CENTERS

1 FLEXIBLE ALUMINIUM CABLE POWERED BY ELECTRON BEAM CROSS LINKED TECHNOLOGY

2 MULTICORE COPPER CABLE

3 POWER CABLES

HIGH SPEED PERFORMANCE | LOW SMOKE ZERO HALOGEN (LSZH) | EXCELLENT EMC SHIELDING | FLAME RETARDANT (FRLS / FR) | FLEXIBLE & EASY ROUTING | RoHS COMPLIANT | 24x7 RELIABILITY & LONG LIFE

1 FLEXIBLE ALUMINIUM CABLE

POWERED BY ELECTRON BEAM CROSS LINKED TECHNOLOGY

CONDUCTOR	Flexible Aluminium (Class 5)
INSULATION	E-Beam Cross Linked (FRLS / LSZH)
CORE IDENTIFICATION	As per requirement
SHIELDING	Aluminium Polyester Tape + Tinned Copper Drain Wire (Optional)
OUTER SHEATH	FRLS / LSZH (Black / Grey)
RATED VOLTAGE	Up to 1.1 kV AC
APPLICATION	High Speed Data Communication, Structured Cabling, Network Infrastructure

2 MULTICORE COPPER CABLE

CONDUCTOR	Flexible Annealed Tinned Copper (Class 5)
INSULATION	E-Beam Cross Linked (FRLS / LSZH)
CORE IDENTIFICATION	As per requirement
SHIELDING	Aluminium Polyester Tape + Tinned Copper Drain Wire (Optional)
OUTER SHEATH	FRLS / LSZH (Black / Grey)
RATED VOLTAGE	Up to 1.1 kV AC
APPLICATION	Data Transmission, Control & Signal Circuits, Network & Communication Systems

3 POWER CABLES

CONDUCTOR	Flexible Annealed Copper (Class 5)
INSULATION	E-Beam Cross Linked (XLPE)
CORE IDENTIFICATION	As per requirement
INNER SHEATH	LSZH (Optional)
ARMOUR (OPTIONAL)	Galvanized Steel Wire / Aluminium Wire
OUTER SHEATH	FRLS / LSZH (Black)
RATED VOLTAGE	Up to 1.1 kV AC
APPLICATION	Power Distribution, PDU, UPS, Busway & Critical Power Infrastructure

APPLICATIONS


DATA CENTERS


SERVER RACKS


NETWORK CABLING


PDU & UPS SYSTEMS


POWER DISTRIBUTION


CRITICAL INFRASTRUCTURE

WHY CHOOSE GULIX DATA CENTER CABLES?

- 100% FLEXIBLE (CLASS 5) EASY TO INSTALL
- E-BEAM CROSS LINKED TECHNOLOGY SUPERIOR RELIABILITY
- HIGH EMC PROTECTION & NOISE FREE PERFORMANCE
- LOW SMOKE ZERO HALOGEN (LSZH)
- FLAME RETARDANT & FIRE SAFE
- RoHS COMPLIANT & ENVIRONMENT FRIENDLY
- LONG SERVICE LIFE 24x7 RELIABILITY

GULIX CABLE
POWERING RELIABLE CONNECTIONS.
POWERING TOMORROW.

GULIX CABLE
POWERING POSSIBILITIES

CAT 6 & CAT 6A NETWORK CABLES

HIGH SPEED. HIGH PERFORMANCE. HIGH RELIABILITY.

Gulix Cat 6 & Cat 6A cables are engineered to deliver high speed data transmission in structured cabling systems. Manufactured with premium materials and advanced technology to ensure exceptional performance, reliability and future ready connectivity for your network.

KEY FEATURES

- Exceeds ANSI/TIA-568.2-D & ISO/IEC 11801 Standards
- High Bandwidth for 10/100/1000BASE-T & 10GBASE-T (Cat 6A)
- Excellent NEXT, PSNEXT & Return Loss Performance
- LSZH Jacket – Low Smoke Zero Halogen, Flame Retardant
- 23 AWG Solid Bare Copper Conductors (4 Pairs)
- IDC Compatible & PoE / PoE+ / 4PPoE Ready
- RoHS Compliant & Environment Friendly

100% SOLID BARE COPPER CONDUCTOR (23 AWG)

COMPLIANT TO

- ANSI/TIA-568.2-D
- ISO/IEC 11801
- IEC 61156-5
- RoHS Compliant

10G HIGH SPEED PERFORMANCE | STABLE & RELIABLE NETWORK | LOW CROSSTALK & LOW NOISE | EASY PULL & FLEXIBLE INSTALLATION | FLAME RETARDANT (LSZH) | FUTURE READY FOR HIGHER BANDWIDTH

CONSTRUCTION

- Solid Bare Copper Conductors (23 AWG)
- HDPE Insulation
- Pair: 4 Pairs, Twisted
- Cross Separator (Spline)
- Rip Cord
- LSZH Jacket (Flame Retardant) Low Smoke Zero Halogen

JACKET COLOURS

Blue | Grey | White | Black | Red | Yellow | Green

Note: Custom colours available on request.

TECHNICAL SPECIFICATIONS

PARAMETER	CAT 6	CAT 6A
Standard	ANSI/TIA-568.2-D ISO/IEC 11801	ANSI/TIA-568.2-D ISO/IEC 11801
Bandwidth	250 MHz	500 MHz
Transmission Speed	10/100/1000BASE-T	10GBASE-T
Conductor	23 AWG Solid Bare Copper	23 AWG Solid Bare Copper
Insulation	HDPE	HDPE
Pairs	4 Pairs, Twisted	4 Pairs, Twisted
Separator	Cross Separator (Spline)	Cross Separator (Spline)
Outer Jacket	LSZH (Low Smoke Zero Halogen)	LSZH (Low Smoke Zero Halogen)
PoE / PoE+ / 4PPoE	Yes	Yes
Operating Temp.	-20°C to +60°C	-20°C to +60°C
Minimum Bend Radius	8 x Overall Diameter	8 x Overall Diameter
Applications	Voice, Data, PoE, 1G Ethernet, IP Cameras, Office Cabling	10 Gigabit Ethernet, Data Centers, Server Rooms, Backbone Cabling, PoE / PoE+ / 4PPoE

* Performance supports up to 100m channel length as per standards.

APPLICATIONS


DATA CENTERS


SERVER ROOMS & RACK CABLING


NETWORK SWITCHES & PATCH PANELS


IP SURVEILLANCE SYSTEMS


OFFICE NETWORKING


WIRELESS ACCESS POINTS

HIGH BANDWIDTH UP TO 500 MHz (CAT 6A) | EXCELLENT CROSSTALK PERFORMANCE | POE / POE+ / 4PPOE HIGH POWER SUPPORT | LSZH JACKET LOW SMOKE ZERO HALOGEN | FLEXIBLE & EASY INSTALLATION | 100% QUALITY TESTED | RELIABLE CONNECTION. POWERING POSSIBILITIES.

GULIX CABLE
POWERING POSSIBILITIES

FS CABLES

FIRE SURVIVAL CABLES

SAFE CIRCUITS. SAVE LIVES.

Gulix FS Cables are engineered to maintain circuit integrity during fire conditions and ensure the continued operation of critical systems. Manufactured with advanced fire resistant technology, these cables comply with global standards and perform in the most demanding life-critical applications.

KEY FEATURES

- Maintain Circuit Integrity under Fire Conditions
- Fire Resistance up to 950°C (as per IEC 60331)
- Low Smoke Zero Halogen (LSZH) Flame Retardant
- High Mechanical Strength & Abrasion Resistant
- UV & Ozone Resistant For Outdoor Use
- RoHS Compliant & Environment Friendly
- Tested for 90 / 120 / 180 Minutes as per IEC 60331

COMPLIANT TO

- IEC 60331-1 / -21 / -23
- BS 6387 (CWZ)
- EN 50200
- IS 10810 (Part 62)

MAINTAINS CIRCUIT INTEGRITY | ENHANCED FIRE SAFETY | LOW SMOKE ZERO HALOGEN | FLAME RETARDANT | RELIABLE IN CRITICAL CONDITIONS | IDEAL FOR LIFE SAFETY APPLICATIONS | RoHS COMPLIANT

CONSTRUCTION

1. Flexible Copper Conductor (Class 5)
2. Mica Tape (Fire Barrier)
3. XLPE / EPR Insulation
4. LSZH Inner Sheath
5. Aluminium / Polyester Tape (Overall Shield)
6. Tinned Copper Drain Wire (Where Applicable)
7. LSZH Outer Sheath (Orange / Red)

AVAILABLE CONFIGURATIONS

- Power FS Cables (1.1 kV)
- Control & Signal FS Cables
- Multi Core / Multi Pair
- Armoured / Unarmoured
- FRLS / LSZH Outer Sheath
- Overall Shielded / Unshielded
- Indoor / Outdoor / Duct / Direct Buried

TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATION
Voltage Grade	Up to 1.1 kV
Temperature Range	-20°C to +90°C
Fire Survival	Upto 950°C for 90 / 120 / 180 Minutes (as per IEC 60331)
Flame Retardant	IEC 60332-1-2
Smoke Density	IEC 61034-1 & IEC 61034-2
Halogen Free	IEC 60754-1 & IEC 60754-2
Circuit Integrity	IEC 60331-1 / -21 / -23
Standard	IEC 60331, BS 6387 (CWZ), EN 50200, IS 10810 (Part 62)
Application	Life Safety Systems requiring Circuit Integrity during Fire

APPLICATIONS


FIRE ALARM SYSTEMS


EMERGENCY LIGHTING


EVACUATION SYSTEMS


FIRE PUMPS & SPRINKLERS


LIFT & ESCALATOR SYSTEMS


CRITICAL POWER SYSTEMS

ENSURES CIRCUIT INTEGRITY DURING FIRE | TESTED FOR EXTREME FIRE CONDITIONS UP TO 950°C | COMPLIANT TO GLOBAL FIRE SURVIVAL STANDARDS | MANUFACTURED WITH PREMIUM QUALITY MATERIALS | RIGOROUSLY TESTED FOR SAFETY & RELIABILITY | SAFER BUILDINGS. STRONGER SYSTEMS. SAVING LIVES.

GULIX CABLE
POWERING POSSIBILITIES

E-BEAM IRRADIATED CABLES

CLEANER. SAFER. STRONGER.

Gulix E-Beam Irradiated Cables are manufactured using advanced electron beam (E-Beam) irradiation technology to enhance the performance of cable insulation and sheath compounds without the use of chemicals. These cables deliver superior thermal, mechanical and electrical properties ensuring long service life and reliable performance across a wide range of applications.

E-BEAM IRRADIATION TECHNOLOGY

ADVANCED. CHEMICAL-FREE. SUSTAINABLE.

E-Beam (Electron Beam) irradiation uses high energy electrons generated by an accelerator to cross-link polymer molecules in the insulation and sheath compounds. This improves performance characteristics without the use of chemicals or by-products.

- HIGH ENERGY ELECTRON BEAM
- CROSSLINKS POLYMER MOLECULES
- ENHANCED THERMAL, MECHANICAL & ELECTRICAL PROPERTIES
- ECO-FRIENDLY NO CHEMICALS NO BY-PRODUCTS

THE E-BEAM IRRADIATION PROCESS

RESULT: Improved performance, long service life & environmental safety

APPLICATIONS

COMPLIANT TO

- IEC 60502-1
- IEC 60228
- IEC 60332-1 / -2
- IEC 61034 (Series)
- IEC 60754 (Series)
- IEC 60092-350 / -351 (Marine Cables)
- IEC 61892 (Offshore Cables)
- Custom Specifications
- RoHS Compliant
- REACH Compliant

MAX. OPERATING TEMPERATURE
120°C (Continuous)

TEMPERATURE RANGE
-40°C to +120°C

MIN. BENDING RADIUS
12 x Overall Diameter

CONSTRUCTION

1. **Conductor**
   Plain or tinned copper as per IEC 60228
2. **Insulation**
   E-Beam cross-linked insulation compound as per IEC 60502-1
3. **Inner Sheath**
   E-Beam cross-linked compound (if applicable)
4. **Armouring (if applicable)**
   Galvanized steel wires / tape as per IEC requirements
5. **Outer Sheath**
   E-Beam cross-linked sheath compound
   Colour: Black (Standard)

Note: Construction may vary as per cable type, voltage grade and customer requirements.

TECHNICAL INFORMATION

PARAMETER	VALUE / DESCRIPTION
Standards	IEC 60502-1, IEC 60228, IEC 60332-1 / -2, IEC 61034, IEC 60754, IEC 60092-350 / -351, IEC 61892, Custom Specs
Voltage Grade (Uo/U)	0.6/1 kV up to 18/30 kV (or as per requirement)
Temperature Range	-40°C to +120°C
Max. Operating Temperature	120°C (Continuous)
Min. Bending Radius	12 x Overall Diameter
Flame Retardant	As per IEC 60332-1-2
Smoke Density	As per IEC 61034 (Series)
Halogen Free (Optional)	As per IEC 60754 (Series)
RoHS Compliance	Yes
Application	For fixed installation in air, in conduit, on racks, in industries, power stations, inside and outside switchgear and controlgear, underground (with protection) and other applications as per design.
Installation	Indoor, outdoor, in tray, in duct, in conduit, direct burial (with protection) as per design.

Note: Values are typical and subject to product design and customer specification.

FEATURES & BENEFITS

- Superior thermal stability and long term performance at elevated temperatures
- Excellent mechanical strength, abrasion and impact resistance
- High electrical insulation performance and partial discharge resistance
- Low smoke, zero halogen (LSZH) option available
- No chemical by-products – safe for people and environment
- Enhanced weathering and UV resistance
- Better ageing characteristics and long service life
- Suitable for harsh environments and critical applications
- Consistent quality and performance

ECO-FRIENDLY
CLEAN TECHNOLOGY
NO CHEMICALS
NO BY-PRODUCTS

TYPICAL CABLE TYPES

- **POWER CABLES** — PVC / XLPE INSULATED, ARMOURED / UNARMOURED
- **CONTROL & INSTRUMENTATION CABLES** — MULTI-CORE SHIELDED / UN-SHIELDED
- **MARINE & OFFSHORE CABLES** — ARMOURED / UNARMOURED
- **FIRE SURVIVAL CABLES** — (AS PER IEC 60331)
- **SOLAR DC CABLES** — (AS PER EN 50618)

QUALITY ASSURANCE

- 100% Routine Tests
- High Voltage Tests
- Conductor Resistance Tests
- Insulation & Sheath Tests
- Flame Retardant Tests
- Smoke & Halogen Tests
- Mechanical Tests
- Dimensional Checks

ADVANCED E-BEAM TECHNOLOGY | CHEMICAL-FREE MANUFACTURING | RELIABLE PERFORMANCE IN EXTREME CONDITIONS | SAFE, SUSTAINABLE & ENVIRONMENT FRIENDLY | CUSTOMIZED SOLUTIONS AS PER REQUIREMENTS | GLOBAL STANDARDS & COMPLIANCE

GULIX CABLE
POWERING POSSIBILITIES

GULIX CABLE
POWERING POSSIBILITIES

LT ABC CABLES
AERIAL BUNCHED CABLES

SAFE. RELIABLE. DURABLE.

Gulix LT ABC (Aerial Bunched Cable) confirms to IS 14255 (Part 1) / IEC 60502-1.
These cables are used for overhead power distribution up to and including 1.1 kV.
The insulated phase conductors are bunched together with an insulated neutral (figure-8 construction) without colour coding.

- **HIGH SAFETY** — Reduced risk of accidental contact & short circuit
- **WEATHER & UV RESISTANT** — UV, IR & moisture resistant outer sheath
- **EXCELLENT PERFORMANCE** — Low voltage drop & consistent performance
- **LONG SERVICE LIFE** — Designed for minimum maintenance

CONSTRUCTION (As per IS 14255 Part 1 / IEC 60502-1)

1. **Phase Conductor** — Stranded Aluminium (Compact), Class 2 as per IS 8130 / IEC 60228
2. **Insulation** — XLPE (Cross Linked Polyethylene) as per IS 7098 (Part 1) Type A
3. **Neutral Messenger** — Stranded Aluminium (AAC), Class 2, Concentric as per IS 14255
4. **Assembly** — Three phase conductors are laid up with the neutral messenger together with suitable laying / binding

STRANDED ALUMINIUM PHASE CONDUCTOR (Compact, Class 2) | XLPE INSULATION (Type A) | NEUTRAL MESSENGER (AAC, Class 2) | FIGURE-8 ASSEMBLY (ABC Construction)

COMPLIANT TO

- IS 14255 (Part 1)
- IEC 60502-1
- IS 7098 (Part 1)
- IEC 60228
- EN 50483-3 / NFC 33-209
- IEC 61034 (Series)
- IEC 60754 (Series)
- RoHS Compliant

RATED VOLTAGE	MAX. OPERATING TEMPERATURE	MIN. BENDING RADIUS
Uo/U (Um) 0.6/1 (1.2) kV	90°C	12 x Overall Diameter

APPLICATIONS


OVERHEAD POWER DISTRIBUTION NETWORKS


URBAN & RURAL DISTRIBUTION NETWORKS


STREET LIGHTING NETWORKS


SERVICE LINE CONNECTIONS


SUBSTATION CONNECTIONS


SAILWAY & METRO INFRASTRUCTURE

STANDARDS & CREDENTIALS

IS 14255 (Part 1)	IEC 60502-1	IS 7098 (Part 1)	IEC 60228	EN 50483-3 / NFC 33-209	RoHS
Indian Standard	International Standard	Insulation Standard	Conductor Standard	European Standard	Compliant

Tested & verified for quality, safety & performance across global benchmark standards.

FEATURES & BENEFITS

- Enhanced public safety
- Reduced risk of power theft
- Weather & UV resistant
- Low voltage drop & consistent performance
- High mechanical strength
- Suitable for all weather conditions
- Long service life with minimum maintenance
- Economical & reliable solution
- Corrosion & chemical resistant
- Environment friendly

INSTALLATION ADVANTAGES

- Lightweight & easy to handle
- Quick & easy installation
- Can be installed on existing poles
- No special tools required
- Cost effective installation

GULIX CABLES
POWERING COMMUNITIES. CONNECTING FUTURES.

- 100% ELECTRICALLY TESTED
- ADVANCED MANUFACTURING
- STRICT QUALITY CONTROL
- RELIABLE PERFORMANCE
- LONG SERVICE LIFE

MADE IN INDIA
MADE IN INDIA
BUILT FOR INDIA, POWERING INDIA.

GULIX CABLE
POWERING POSSIBILITIES

UNINYVIN CABLES
NYLON BRAIDED & LACQUERED FLEXIBLE

For UPS Interface & Critical Power Applications

ENGINEERED FOR RELIABILITY. BUILT FOR PERFORMANCE.

- **High Flexibility** — Easy routing in confined spaces
- **Superior Insulation** — Heat, Oil & Ozone resistant
- **High Reliability** — Uninterrupted power in critical systems
- **Nylon Braided** — Excellent mechanical protection
- **RoHS Compliant** — Environment friendly & lead free
- **Lacquered Finish** — Improved, abrasion, moisture & chemical resistance

CONSTRUCTION

1. **Conductor** — Fine Stranded Tinned Copper as per IS 8130 / IEC 60228 (Class 5)
2. **Insulation** — Elastomeric Insulation (HEPR / EPR Type) as per IS 17048 / IEC 60502-1
3. **Braid** — Nylon Braiding High Strength & Abrasion Resistant
4. **Finish** — Lacquered Finish (Impregnated with Special Lacquer for Extra Protection)

IDENTIFICATION

(Natural colour – No marking on Outer Sheath)

KEY BENEFITS

- **Extra Flexible** — Easy installation & routing
- **Elastomeric Insulation** — High dielectric strength & thermal resistance
- **Nylon Braided** — Superior mechanical protection
- **Lacquered Finish** — Moisture, oil & chemical resistance
- **High Reliability** — Designed for uninterrupted power in critical systems
- **Long Service Life** — Reduced maintenance, high durability
- **Safe & Environment** — RoHS Compliant, lead free
- **Wide Usability** — Suitable for UPS, DG Sets, Control Panels, DC Systems & other critical power uses

APPLICATIONS

INSTALLATION GUIDELINES

Use suitable lugs / glands

Avoid excessive pulling

Min. Bend Radius 4 x Overall Diameter

Install in well-ventilated & dry locations

Protect from direct sunlight, heat sources & sharp edges

Follow system design & safety regulations

COMPLIANT TO

- IS 17048 : 2018 (HEPR Insulated Cables)
- IS 8130 : 2013 (Class 5 Flexible Conductors)
- IEC 60228 : 2005 (Class 5 Conductors)
- RoHS Compliant
- REACH Compliant

RATED VOLTAGE
600/1000 V AC

TEMPERATURE RANGE
-15°C to +90°C
(For continuous operation)

GULIX CABLE
POWERING POSSIBILITIES

WELDING CABLES
BUILT TO DELIVER.
ENGINEERED TO LAST.

Gulix Cable welding cables are heavy duty, extra flexible cables designed for connection of welding machines to electrode holders and work clamps. Manufactured in accordance with international standards, these cables deliver exceptional flexibility, high current carrying capacity, excellent mechanical strength and long service life even in the most rugged working conditions.

CONSTRUCTION (As per IS 9857)

1. **CONDUCTOR**
   Flexible Electrolytic Copper, Class 5 as per IS 8130
2. **INSULATION**
   Heat Resistant Elastomeric Compound (Type E4)
3. **SHEATH**
   Heat, Abrasion, Ozone and Oil Resistant Elastomeric Compound (Type EM5)

KEY TECHNICAL STRENGTH

- Extra Flexible for easy handling and installation
- High Current Carrying Capacity
  Designed for heavy duty welding applications
- Heat & Flame Resistant
  Withstands high temperature and sparks
- Abrasion, Oil & Ozone Resistant
  Suitable for harsh working environments
- High Mechanical Strength
  Superior tensile strength, impact & tear resistance
- Long Service Life
  Engineered for extended durability and reliable performance

COMPLIANT TO

- IS 9857 : 1981
- IS 8130 : 2013
- RoHS Compliant
- REACH Compliant
- Custom Specifications

RATED VOLTAGE
Up to 100 V DC

MAX. CONDUCTOR TEMPERATURE
90°C

SHORT CIRCUIT TEMPERATURE
250°C (Max. 5 sec.)

APPLICATIONS

- Arc welding machines
- Electrode holders
- Work (earth) clamps
- Interconnecting leads between power source and welding equipment
- Portable & stationary welding equipment
- Robotic & automated welding systems

TECHNICAL SPECIFICATION

PARAMETER	DESCRIPTION
Conductor	Flexible Electrolytic Copper, Class 5 as per IS 8130
Insulation	Heat Resistant Elastomeric Compound (Type E4)
Sheath	Heat, Abrasion, Ozone & Oil Resistant Elastomeric Compound (Type EM5)
Colour	Black
Voltage Grade	Up to 100 V DC
Temperature Range	-25°C to +90°C
Min. Bending Radius	6 x Overall Diameter
Applicable Standards	IS 9857, IS 8130, IEC 60228 (Class 5) Custom Specifications

FLEXIBLE CONSTRUCTION | HIGH CURRENT CAPACITY | OZONE & UV RESISTANT | OIL & CHEMICAL RESISTANT | HEAT & FLAME RESISTANT | EXTENDED SERVICE LIFE

E-BEAM IRRADIATION TECHNOLOGY

E-Beam (Electron Beam) irradiation cross-links the polymer molecules in the insulation and sheath, enhancing the performance characteristics without the use of chemicals or by-products.

- Improved Thermal Stability
- Enhanced Mechanical Strength
- Better Abrasion & Tear Resistance
- No Chemicals
- Environment Friendly
- Safe & Sustainable

ADVANTAGES

- Reliable performance in high current welding applications
- Withstands harsh environments – heat, oil, ozone & abrasion
- Excellent flexibility for ease of use
- Safe operation with low voltage rating
- Consistent quality for long life and minimum downtime
- Available in custom configurations as per requirement

ELECTRICAL & MECHANICAL CHARACTERISTICS

Max. Conductor Resistance at 20°C (Ω/km)	16	25	35	50	70	95	120	185
	1.24	0.795	0.565	0.393	0.277	0.210	0.164	0.108
Dielectric Strength (AC, 50 Hz, 1 Min.)	2 kV							
Insulation Resistance at 20°C (Min.)	10 MΩ x km							
Voltage Test (DC, 1 Min.)	Up to 100 V DC							
Minimum Pulling Force	15 N/mm² of conductor							
Tensile Strength (Min.)	≥ 10.3 N/mm²							
Elongation at Break (Min.)	200%							
Hot Set Test (90°C ± 2°C, 7 x 4 hrs)	No cracking							
Cold Bend Test (-25°C ± 2°C, 4 hrs)	No cracking							
Flame Retardant Test (Single Vertical Wire)	Shall be Flame Retardant							
Oil Resistance (IRM 902 Oil, 70°C x 4 days)	Tensile variation: Max. ±25%, Volume variation: Max. ±25%							
Ozone Resistance (50 pphm, 20% strain, 48 hrs)	No cracking							

Note: Values are typical and subject to product design and customer specification.

TYPICAL APPLICATION INDUSTRIES


SHIPBUILDING & OFFSHORE


STEEL PLANTS & FABRICATION


AUTOMOTIVE & RAILWAYS


OIL & GAS INDUSTRY


POWER GENERATION & DISTRIBUTION


INFRASTRUCTURE & CONSTRUCTION


HEAVY MACHINERY & EQUIPMENT


MAINTENANCE & REPAIR

IDENTIFICATION & MARKING (Example)

GULIX CABLE | WELDING CABLE | IS 9857 | 70 SQ.MM | 100 V DC | YYYY M

- GULIX CABLE — Brand Name
- WELDING CABLE — Cable Type
- IS 9857 — Standard
- 70 SQ.MM — Size
- 100 V DC — Rated Voltage
- YYYY M — Month & Year of Mfg.

ADDITIONAL TECHNICAL STRENGTHS

- Low Smoke (LSZH) Option Available
- High Flex Life for Continuous Movement
- UV & Weather Resistant
- RoHS & REACH Compliant
- Consistent Quality Assurance

INTERNATIONAL STANDARD COMPLIANCE | ADVANCED E-BEAM TECHNOLOGY | HIGH PERFORMANCE IN EXTREME CONDITIONS | CHEMICAL & OIL RESISTANT | SUPERIOR FLEXIBILITY & EASY HANDLING | TRUSTED BY INDUSTRIES WORLDWIDE

GULIX CABLE
POWERING POSSIBILITIES

GULIX CABLE
POWERING POSSIBILITIES

REELING & UNREELING CABLES

WITH ELASTOMERIC INSULATION

BUILT FOR CONTINUOUS MOTION. ENGINEERED TO PERFORM.

Gulix Reeling & Unreeling Cables (commonly known as Trailing / CRD Cables) are specially designed for dynamic applications involving continuous reeling and unreeling in harsh industrial environments.

Manufactured and tested in accordance with **IS 9968** (Part-1) for elastomeric/rubber cables or **IS 14494** for specialized mining trailing cables, these cables ensure superior flexibility, tensile strength and long service life.

Drums used for winding must conform to **IS 10418**, ensuring safe operation and extended cable life.

CONSTRUCTION

1. **Conductor**
   Extra flexible stranded copper as per Class 5 of IS 8130 / IEC 60228
2. **Insulation**
   Elastomeric compound (HEPR / EPR / PCP) as per IS 9968 (Part-1) / IS 14494
3. **Core Identification**
   Black cores with white numbering
4. **Inner Sheath / Bedding**
   Elastomeric bedding (where required)
5. **Strength Member (Optional)**
   Textile / Aramid yarn for enhanced mechanical strength
6. **Outer Sheath**
   Elastomeric compound Oil, abrasion, ozone & weather resistant (EM5 Type)

KEY FEATURES

- **Extra High Flexibility**
  Designed for repetitive bending and continuous reeling / unreeling
- **High Tensile & Tear Strength**
  Withstands high mechanical stress and harsh industrial conditions
- **Excellent Abrasion, Oil, Ozone & UV Resistance**
  Suitable for tough environments
- **Flame Retardant**
  As per IEC 60332-1-2 (Optional)
- **Wide Temperature Range**
  -25°C to +90°C
- **RoHS Compliant**
  Environment friendly & lead free

APPLICATIONS

- Cable Reels & Hose Reels
- Cranes & Hoists
- RTGs, RMGs & Gantry Cranes
- Stacker Reclaimers
- Ship-to-Shore Cranes
- Mobile & Harbour Cranes
- Mining & Tunnelling Equipment
- Automated Material Handling Systems
- Stage & Theatre Systems
- Winders, Unwinders & Retractable Systems

TECHNICAL SPECIFICATIONS

PARAMETER	REQUIREMENT
Conductor	Extra Flexible Stranded Copper, Class 5 as per IS 8130 / IEC 60228
Insulation	Elastomeric (HEPR / EPR / PCP) as per IS 9968 (Part-1) / IS 14494
Core Identification	Black cores with white numbering
Inner Sheath / Bedding	Elastomeric Bedding (Where required)
Strength Member (Optional)	Textile / Aramid Yarn
Outer Sheath	Elastomeric Compound (EM5 Type)
Voltage Grade	Uo/U (Um) : 0.6/1 (1.2) kV
Temperature Range	-25°C to +90°C (Fixed) -25°C to +90°C (Flexing)
Min. Bending Radius	6 x Overall Diameter (Fixed) 8 x Overall Diameter (During Reeling)
Flame Retardant	As per IEC 60332-1-2 (Optional)
Oil & Chemical Resistance	Good
Application	Indoor / Outdoor / Industrial

Note: Other voltage grades and constructions available on request.

COMPLIANCE & STANDARDS

- IS 9968 (Part-1) – For Elastomeric Insulated Reeling & Unreeling Cables
- IS 14494 – For Specialized Mining Trailing Cables
- IS 10418 – For Drums for Reeling & Unreeling Cables
- IS 8130 / IEC 60228 – Conductors
- IEC 60332-1-2 – Flame Retardant (Optional)
- RoHS Compliant

ISI · RoHS COMPLIANT · REACH COMPLIANT

E-BEAM IRRADIATION TECHNOLOGY

E-Beam (Electron Beam) irradiation cross-links the polymer molecules in the insulation and sheath, improving:

- Thermal Stability
- Mechanical Strength
- Abrasion & Tear Resistance
- Chemical & Oil Resistance
- Long Service Life

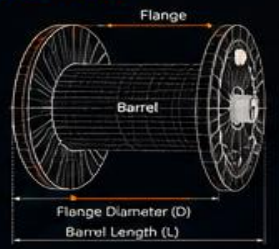
ELECTRICAL & MECHANICAL CHARACTERISTICS

PARAMETER	TEST METHOD	REQUIREMENT
Voltage Grade	IS 9968 / IEC 60502	0.6/1 (1.2) kV AC
Dielectric Strength	IS 9968	2 kV AC (Min.)
Insulation Resistance	IS 9968	10 MΩ x km (Min.) at 20°C
Minimum Pulling Force	IS 9968	15 N/mm² of total conductor area (Min.)
Tensile Strength (Min.)	IS 9968	≥ 10.3 N/mm²
Elongation at Break (Min.)	IS 9968	≥ 150%
Cold Bend Test (-25°C ± 2°C)	IS 9968	No cracking
Hot Set Test (90°C ± 2°C, 7 x 4 hrs)	IS 9968	Elongation variation: ± 25% Max.
Ozone Resistance	IS 9968	No cracking
Oil Resistance (IRM 902 Oil, 70°C x 4 days)	IS 9968	Tensile variation: ± 25% Max.

DRUMS FOR REELING & UNREELING CABLES

Drums used for winding Reeling & Unreeling Cables must conform to IS 10418.
These drums are designed to ensure:

- Proper winding geometry
- Adequate flange and barrel strength
- Controlled operator tension
- Prevention of cable bulging, kinking or snapping
- Safe and smooth reeling/unreeling operations



IDENTIFICATION (EXAMPLE)

GULIX CABLE | REELING & UNREELING CABLE | IS 9968 (PART-1) | 3C X 35 SQ.MM | 0.6/1 (1.2) kV | YYYY | M

- GULIX CABLE — Brand Name
- REELING & UNREELING CABLE — Cable Designation
- IS 9968 (PART-1) — Standard Reference
- 3C X 35 SQ.MM — No. of Cores x Size
- 0.6/1 (1.2) kV — Voltage Grade
- YYYY — Year of Manufacture
- M — Meter Marking

IMPORTANT NOTES

- Cables are not to be used for lifting.
- Avoid over-tensioning during operation.
- Regular visual inspection recommended.
- Use appropriate cable size as per load and drum capacity.

BUILT FOR CONTINUOUS MOTION | EXTRA FLEXIBLE & DURABLE | HIGH CURRENT CARRYING CAPACITY | ABRASION, OIL & OZONE RESISTANT | FLAME RETARDANT (OPTIONAL) | LONG SERVICE LIFE & RELIABILITY | RoHS COMPLIANT

GULIX CABLE
POWERING POSSIBILITIES

GULIX CABLE
POWERING POSSIBILITIES

MEDIUM VOLTAGE COVERED CONDUCTOR (MVCC)

ACCORDING TO EN 50397-1

Gulix MVCC (Medium Voltage Covered Conductor) cables are specifically engineered for reliable overhead power transmission and distribution in aerial installations. Designed for harsh environments, they deliver superior mechanical protection, high electrical performance and long service life with high resistance to track, UV radiation, abrasion and weathering.

CONSTRUCTION (EN 50397-1)

1. **Conductor**
   Circular stranded aluminium (EN 60228, Class 2)
2. **Conductor Screen**
   Extruded semi-conductive cross-linked layer
3. **Insulation (XLPE)**
   Cross-linked polyethylene (XLPE) insulation for excellent electrical performance
4. **Track Resistance / UV Resistant HDPE/XLPE Sheath**
   Specially formulated outer sheath provides high track resistance, UV radiation resistance, abrasion resistance and mechanical protection

CROSS SECTION

KEY FEATURES & BENEFITS

- Designed for continuous reeling & unreeling operations
- High short-circuit current carrying capacity
- Excellent mechanical strength and abrasion resistance
- UV, ozone, moisture & chemical resistant
- High tracking resistance & corrosion resistant
- Flame retardant (as per IEC 60332-1-2)
- Low smoke & halogen free (Option available)
- Long service life with minimum maintenance
- Concentric conductor provides earth continuity & touch safety

COMPLIANCE & STANDARDS

- EN 50397-1 (Covered conductors for overhead lines)
- EN 60228 (Conductors of insulated cables)
- HD 620 S2 (CENELEC)
- IEC 60502-2 (Where applicable for accessories)
- IEC 60332-1-2 (Flame retardant)
- RoHS Compliant
- REACH Compliant

OPERATING CONDITIONS

- Rated Voltage (U_0/U): Up to 11 kV (U_m = 12 kV)
- Max. Conductor Temp.: 90 °C
- Ambient Temp. Range: -40 °C to +90 °C
- Short-circuit Temp.: 250 °C (Max. 5 sec.)

BUILT FOR REAL-WORLD CHALLENGES

TYPICAL APPLICATIONS

MARKING (Example)

GULIX	MVCC	11 kV	EN 50397-1	YYYY	M	XXX m
Brand Name	Cable Type	Voltage Grade (U_0/U)	Standard Reference	Year of Manufacture		Meter Marking

Inkjet printed for permanence on the outer sheath.

IDENTIFICATION

Insulation: Natural (XLPE) with printed number (White)
Outer Sheath: Black
Other colours available on request.

TRACK RESISTANCE (EN 50397-1)

Requirement	Test Method
Outer sheath shall have high tracking resistance. Solution: 0.1% NH4Cl Voltage: As per EN 50397-1 Duration: 6 hours No breakdown shall occur.	IEC 60587 (Method A)

NOTE:

- Other cross sections, constructions & drum lengths are available on request.
- All tests are performed at ambient temperature unless specified otherwise.

ADVANTAGES OF MVCC CABLES

- No separate earth wire required (concentric conductor)
- Provides earth continuity through conductor screen
- Reduces installation time & cost
- Excellent performance in polluted & saline environments
- High flexibility for easy handling & reeling
- Enhanced safety against electric shock and step voltage
- Lower installation and maintenance cost
- Long service life & high reliability

IMPORTANT NOTES

- Cables are not to be used for lifting.
- Avoid over-tensioning during operation.
- Regular visual inspection recommended.
- Use appropriate cable size as per load and drum capacity.
- Ensure correct installation & termination as per standard.

COMPLIANCE & TESTS

- Designed, manufactured & type tested as per EN 50397-1
- Conductor: EN 60228
- Insulation: XLPE as per HD 620 S2
- Routine tests as per EN 50397-1
- Flame Retardant test (if required)
- RoHS Compliant

CONCENTRIC CONDUCTOR FOR EARTH CONTINUITY | HIGH SHORT-CIRCUIT CARRYING CAPACITY | EXCELLENT MECHANICAL PROTECTION | UV, OZONE & WEATHER RESISTANT | LOW SMOKE & HALOGEN FREE (OPTIONAL) | RELIABLE PERFORMANCE IN HARSH ENVIRONMENTS

GULIX CABLE
POWERING POSSIBILITIES

GULIX CABLE
POWERING POSSIBILITIES

ELASTOMERIC CABLES

ENGINEERED FOR EXTREME PERFORMANCE. BUILT FOR RELIABILITY.

Gulix Elastomeric Cables are engineered for superior performance in demanding industrial, outdoor and harsh environment applications. Designed and manufactured as per international and Indian Standards, these cables deliver excellent electrical, mechanical and thermal performance with outstanding resistance to heat, oil, ozone, UV, abrasion and weather.

CONSTRUCTION (Typical for Single Core)

1. **CONDUCTOR** – Flexible Tinned Copper (Class 5) / Plain Annealed Copper (Class 5) as per IS 8130 / IEC 60228
2. **CONDUCTOR SCREEN** – Extruded Semi-conductive Elastomeric Compound
3. **INSULATION** – Elastomeric Insulation (EPR / EPR Type 3 / EPDM / XLPO / EVA / Silicone Rubber) as per applicable standards
4. **INNER SHEATH** – Elastomeric Compound
5. **OUTER SHEATH** – Elastomeric Compound (Type EM5 / EM8 as per IS 9968 (Pt.1) / IS 14994 / IEC 60502-1)

COLOUR: Black (Standard) Other colours on request

KEY FEATURES & BENEFITS

- Excellent resistance to heat, oil, ozone, UV radiation, moisture and chemicals
- High mechanical strength and abrasion resistance
- Flexible, easy to install and maintain
- Excellent electrical properties and reliability
- Flame retardant & self-extinguishing (as per applicable standards)
- Outstanding resistance to weathering and environmental stress
- Long service life with low maintenance and high reliability

TYPICAL APPLICATIONS

ELASTOMERIC COMPOUND OPTIONS

EPR (EPR Type 3)	EPDM	XLPO	SILICONE	EVA
Excellent electrical properties, mechanical strength and heat resistance.	Excellent resistance to ozone, weather, water and steam.	Higher thermal stability, low moisture absorption, improved electrical properties.	Wide temperature range, high flexibility and excellent chemical resistance.	Excellent flexibility and low temperature performance.

APPLICABLE STANDARDS

- **IS 14994 : 2010** – Elastomeric insulated cables (up to and including 33 kV)
- **IS 9968 (Part 1) : 1991** – Elastomeric insulated cables for working voltages up to and including 1100 V
- **IS 9968 (Part 2) : 1992** – Elastomeric insulated cables for working voltages above 1100 V up to and including 33 kV
- **IS 9857 : 1981** – Specification for welding cables
- **IEC 60502-1** – Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1.2 kV) up to 30 kV (Um = 36 kV) – Part 1
- Other international standards & customer specifications on request

RATED VOLTAGE RANGE

- Up to and including 1100 V as per IS 9968 (Part 1)
- Above 1100 V up to and including 33 kV as per IS 9968 (Part 2) & IS 14994
- From 1.1 kV up to 33 kV as per IEC 60502-1

MULTI CORE AND CUSTOM CONFIGURATIONS AVAILABLE ON REQUEST

ELECTRICAL CHARACTERISTICS

- Insulation Resistance at 90 °C (Min.) 100 MΩ.km
- AC Test Voltage (50 Hz) 3.5 kV for 1 min (3.3 kV) / 6.5 kV for 1 min (6.6 kV) / 11 kV for 1 min (11 kV) — DC Test Voltage As per IEC 60502-1
- Maximum Conductor Operating Temperature — 90 °C (Normal) 250 °C (Short Circuit)
- Short Circuit Temperature (Max on request)
- Minimum Bending Radius

MECHANICAL & ENVIRONMENTAL PERFORMANCE

Abrasion Resistance	Excellent
Oil & Chemical Resistance	Excellent
Ozone Resistance	Excellent
UV Resistance	Excellent
Weather Resistance	Excellent
Water & Moisture Resistance	Excellent
Operating Temperature Range	-40 °C to +90 °C
Installation Temperature Range	-20 °C to +60 °C

TRACKING RESISTANCE (IS 14994)

Elastomeric insulation and sheath offer high tracking resistance and are suitable for installation in areas prone to surface tracking and pollution.

Voltage Grade	CTI (Min.)
Up to 1.1 kV	250
> 1.1 kV to 3.3 kV	400
> 3.3 kV to 6.6/11 kV	600

Test Method: IEC 60112

FIRE PERFORMANCE

Flame Retardant	As per IEC 60332-1-2
Smoke Density	IEC 61034 (Opt.)
Halogen Free	IEC 60754 (Opt.)
Acid Gas Emission	IEC 60754 (Opt.)

Other fire performance tests available on request.

COMPLIANCE & TESTS

- Designed, manufactured & type tested as per applicable standards
- Conductor: IS 8130 / IEC 60228
- Insulation: As per IS 9968 (Pt.1 / Pt.2), IS 14994 / IEC 60502-1
- Routine Tests: As per applicable standards
- Flame Retardant Test (if required)
- RoHS Compliant

RoHS COMPLIANT

EXCELLENT RESISTANCE TO HEAT, OIL, OZONE & UV | SUPERIOR MECHANICAL STRENGTH | HIGH FLEXIBILITY & EASY INSTALLATION | ABRASION & TEAR RESISTANT | FLAME RETARDANT & FIRE SAFE | WEATHER & CHEMICAL RESISTANT | LONG SERVICE LIFE LOW MAINTENANCE

GULIX CABLE
POWERING POSSIBILITIES

GULIX CABLE
POWERING POSSIBILITIES

ANTI THEFT CABLE

STOP POWER THEFT. SECURE YOUR NETWORK.

Gulix Anti Theft Cables are specially designed Low Voltage power cables with concentrically applied neutral wires over the insulation. This unique construction makes illegal tapping practically impossible without cutting the cable, ensuring uninterrupted power supply, revenue protection and enhanced safety.

CONSTRUCTION (Typical for Single Core)

1. **CONDUCTOR**
   Class 2 Annealed Copper as per IS 8130
2. **INSULATION**
   PVC as per IS 5831 / Type A
3. **CONCENTRIC NEUTRAL**
   Annealed Copper wires applied helically with optimum lay length
4. **INNER SHEATH** (Optional)
   PVC as per IS 5831 / Type ST2
5. **OUTER SHEATH**
   PVC as per IS 5831 / Type ST2 (Black Colour)

The concentrically laid neutral wires act as a protective barrier, eliminating access to phase conductors and preventing electricity theft effectively.

KEY FEATURES

- Concentric neutral design prevents illegal tapping and theft
- High short-circuit current carrying capacity
- Excellent mechanical strength and abrasion resistance
- Moisture, UV and chemical resistant outer sheath
- Flame retardant & self-extinguishing
- Easy to install and maintain
- Long service life with high reliability
- Environment friendly RoHS compliant (Option)

TYPICAL APPLICATIONS


Power Distribution Networks


Residential Complexes


Commercial Areas & Markets


Industrial Installations


Street Lighting Projects


Construction Sites

HOW ANTI THEFT CABLE PREVENTS POWER THEFT

1. CONCENTRIC NEUTRAL BARRIER

Concentric copper wires form a layer around the insulation. This layer is at the same potential as neutral.

2. TAMPER DETECTION INSTANTLY

Any attempt to cut or tap the cable disturbs the concentric neutral. The disturbance is immediate and visible.

3. CIRCUIT PROTECTION TRIGGERS

The disturbance causes high unbalanced current which trips protection devices (MCB/ MCCB/Relays), interrupting supply.

4. NO ILLEGAL ACCESS

Without cutting through the concentric neutral layer, phase conductors remain inaccessible.

5. SECURE & REILABLE POWER SUPPLY

Ensures safe, reliable and uninterrupted power supply with zero tolerance to theft.

TECHNICAL ADVANTAGES

- Prevents revenue losses due to power theft
- Improves system stability & reliability
- Eliminates overheating at illegal joints
- Reduces risk of fire hazards
- Protects critical infrastructure
- Enhances public safety
- Low maintenance and long operational life
- Cost effective solution for utilities

STANDARDS & COMPLIANCE

- IS 9968 (Part 1) : 1988 – Concentric Neutral Cables
- IS 14494 : 2017 – Concentric Neutral Cables
- IEC 60502-1 : 2021 – Power Cables with Extruded Insulation
- Also available as per IEC 60228, IS/IEC 60332-1 (Flame Retardant), IEC 60754, IEC 61034, IS/IEC 60811 series (Test Methods)

TECHNICAL DATA

Rated Voltage (Uo/U)	Up to 1.1 kV
AC Test Voltage (50 Hz)	3.5 kV for 5 min
Max. Conductor Temp.	70 °C (Normal) 90 °C (Emergency)
Short Circuit Temp.	160 °C (Max.)
Min. Bending Radius	12 x Overall Diameter (Fixed) 15 x Overall Diameter (During Laying)
Installation	Direct Burial / Duct / Tray
Operating Temp.	–20 °C to +70 °C
Flame Retardancy	As per IEC 60332-1-2
Smoke & Halogen	Low Smoke, Halogen Free (Option)

IDEAL FOR PREVENTING THEFT IN

- Electricity Distribution Companies
- Government & Municipal Projects
- Housing Boards & Societies
- Industrial Estates & Parks
- Infrastructure & Smart City Projects
- Renewable Energy Installations

ANTI THEFT CABLE IS NOT JUST A CABLE,
IT IS A SECURITY SOLUTION FOR YOUR POWER NETWORK.

AVAILABLE CORE CONFIGURATIONS

1 Core | 2 Core | 3 Core | 3.5 Core (With Neutral) | 4 Core

THEFT PROOF BY DESIGN | MAXIMUM SAFETY & PROTECTION | HIGH SHORT CIRCUIT CAPACITY | EXCELLENT MECHANICAL STRENGTH | FLAME RETARDANT & LOW SMOKE | EASY INSTALLATION & MAINTENANCE | BUILT FOR INDIAN CONDITIONS FOR UTILITIES

GULIX CABLE
POWERING POSSIBILITIES

GULIX CABLE

POWERING POSSIBILITIES

SHIP WIRING CABLES

AS PER EED-50-12 & EED-50-13

Engineered for safe, reliable and continuous performance in marine and offshore environments.

Manufactured as per EED-50-12 (Power, Control & Lighting Cables) and EED-50-13 (Instrumentation & Signal Cables) for use on board ships, offshore units and marine applications.

KEY FEATURES

- **Flame Retardant**
  Complies with IEC 60332-1-2
- **Low Smoke & Halogen Free (LSHF) Options**
  As per IEC 60754-1 / IEC 60754-2 (Option)
- **Oil & Chemical Resistant**
  Resistant to lubricating oils, fuels and most chemicals encountered on board
- **Moisture & Sea Water Resistant**
  EPR sheath provides excellent resistance to moisture and salt water
- **Ozone & UV Resistant**
  Suitable for exposed and open deck environment
- **High Flexibility**
  Easy installation in confined spaces
- **Wide Temperature Range**
  -40 °C to +120 °C (Continuous Operation)
  40000 Hours Life
- **Robust & Reliable**
  Designed for long service iife in harsh marine conditions

APPLICATIONS


Bridge & Control Systems


Engine Room & Machinery Space


Power & Lighting Distributions


Deck & Outdoor Applications


Control & Instrument Panels


Accommodation & General Wiring


Telecom & Data Systems


Offshore & Marine Installations

ELECTRICAL & MECHANICAL PERFORMANCE

- High short-circuit current carrying capacity
- Excellent mechanical strength and abrasion resistance
- Moisture, UV and chemical resistant outer sheath
- -40 °C to +120 °C (Continuous Operation) 40000 Hours Life
- Easy to install and maintain
- Long service life with high reliability

COMPLIANT TO INTERNATIONAL STANDARDS

- EED-50-12 (Power, Control & Lighting Cables)
- EED-50-13 (Instrumentation & Signal Cables)
- IEC 60332-1-2 (Flame Retardant)
- IEC 60754-1 / 60754-2 (Halogen Free Options)
- IEC 61034-2 (Smoke Density)
- IEC 60092 Series (Marine Cables)

MADE FOR INDIAN CONDITIONS

TYPE APPROVALS

ABS GULIX CABLE | GULIX CABLE | DNV GULIX CABLE | RINA GULIX CABLE | CCS GULIX CABLE

GULIX CABLE | GULIX CABLE | KR KOREAN REGISTER GULIX CABLE

ENGINEERED FOR MARINE EXCELLENCE

- Safe for Life at Sea
- Reliable in Every Condition
- High Performance in Harsh Environments
- Trusted by Marine Professionals

WHY CHOOSE GULIX CABLESHIP WIRING CABLES?

- Designed for Marine & Offshore Environment
- High Safety & Reliability
- Excellent Electrical & Mechanical Performance
- Trusted by Leading Class Societies
- Consistent Quality, Global Standards
- Powering Possibilities, Delivering Trust.

FLAME RETARDANT | LOW SMOKE & HALOGEN OPTIONS | OIL & CHEMICAL RESISTANT | MOISTURE & SEA WATER RESISTANT | UV & OZONE RESISTANT | ROBUST & RELIABLE | ENGINEERED FOR SAFETY

STRONGER CONNECTIONS. SMARTER NETWORKS.

POWERING POSSIBILITIES.

GULIX CABLE
POWERING POSSIBILITIES

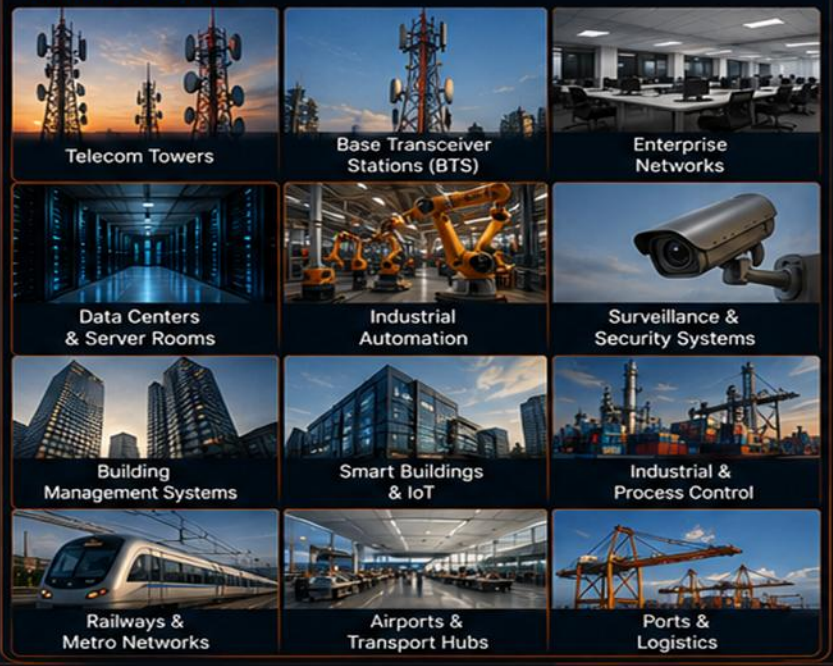
NETWORK CABLES

COMPLETE CONNECTIVITY. ENGINEERED FOR RELIABILITY.

Gulix Network Cables are engineered to deliver high speed connectivity with superior signal integrity, low attenuation and maximum reliability. Ideal for data communication in industrial, commercial and infrastructure networks.

- High Speed Data Transmission
- Low Attenuation & Crosstalk
- Excellent Signal Integrity
- Flexible & Easy to Install
- RoHS Compliant & Environment Friendly
- Wide Operating Temperature -40°C to +120°C
- 40000 Hours Continuous Life

APPLICATIONS



KEY FEATURES

- High Speed Data Transmission
- Excellent Signal Integrity
- Low Attenuation & Crosstalk
- Flame Retardant, Low Smoke, Zero Halogen (FRLS / LSZH Options)
- UV, Oil, Moisture & Weather Resistant
- Flexible, Durable & Easy to Install
- RoHS Compliant & Environment Friendly
- Wide Operating Temperature -40°C to +120°C
- 40000 Hours Continuous Life

TYPES OF NETWORK CABLES

POWER CABLES (MULTICORE)

- 2 Core x 10 Sq.mm
- 2 Core x 16 Sq.mm
- 3 Core x 10 Sq.mm
- 3 Core x 16 Sq.mm
- 4 Core x 10 Sq.mm
- 4 Core x 16 Sq.mm
- 1.1 kV Grade
- FRLS / LSZH Sheath

DATA CABLES (COPPER)

- CAT 5e
- CAT 6
- CAT 6A
- 23 AWG / 24 AWG
- UTP / FTP
- LSZH / PVC Sheath

CONTROL & SIGNAL CABLES

- Multi Pair (Shielded/Unshielded)
- Overall Foil Shield
- LSZH / PVC Sheath
- Flame Retardant
- Low Capacitance

TELECOM CABLES

- Copper Telecom Cables
- Pair / Quad Cables
- PVC / FRLS Sheath
- Indoor / Outdoor Use

ETHERNET PATCH CABLES

- Cat 5e / Cat 6 / Cat 6A
- Patch Cords
- High Flexibility
- Molded Strain Relief
- Snagless Boot

BENEFITS

- Reliable & High Speed Data Communication
- Improved Network Performance & Efficiency
- Reduced Downtime & Maintenance
- Future Ready for High Bandwidth Applications
- Long Term Durability & Cost Effectiveness

COMPLIANCE STANDARDS

- ISO/IEC 11801
- TIA/EIA 568
- RoHS Compliant
- TIA-607-B
- IEC 61034
- CE Certified

ELECTRICAL PERFORMANCE

Parameter	Typical Value
Characteristic Impedance	100 ± 15 Ω
DC Resistance (Max.)	9.5 Ω / 100m
Insulation Resistance (Min.)	5000 MΩ.km
Capacitance Mutual (Max.)	5.6 nF / 100m
Voltage Rating	300 / 500 V (Power) 72 V (Data)
Frequency Range	Up to 250 MHz (Cat6A)
Propagation Delay Skew (Max.)	45 ns / 100m

MECHANICAL PERFORMANCE

Parameter	Typical Value
Minimum Bending Radius	4 x Overall Diameter
Operating Temperature	-40°C to +120°C
Installation Temperature	0°C to +50°C
Sheath Material	PVC / LSZH / FRLS
Flame Retardant	IEC 60332-1
Smoke Density	IEC 61034
Halogen Content	IEC 60754 (Low Halogen)

CONSTRUCTION (TYPICAL)

1. Conductor — Bare Copper / Solid or Stranded
2. Insulation — HDPE
3. Pair Assembly — Twisted Pairs
4. Shield (If Applicable) — Al Foil / Braid
5. Outer Sheath — PVC / LSZH / FRLS

- High Speed Performance
- Low Signal Loss
- Low Crosstalk
- UV & Moisture Resistant
- Flame Retardant
- Oil & Chemical Resistant
- RoHS Compliant
- Easy Installation

ENGINEERED FOR PERFORMANCE | TRUSTED BY PROFESSIONALS | GLOBAL QUALITY STANDARDS | RELIABLE CONNECTIVITY EVERYWHERE | BUILT FOR TODAY READY FOR TOMORROW

STRONGER CONNECTIONS. SMARTER NETWORKS.
POWERING POSSIBILITIES.

GULIX CABLE
POWERING POSSIBILITIES

SUBMERSIBLE FLAT CABLES

AS PER IS 694 & IS 9968

BUILT TO DELIVER POWER. EVEN UNDERWATER.

Gulix Submersible Flat Cables are specially designed and manufactured for submersible pump sets and underwater applications.
Manufactured as per IS 694 & IS 9968, they deliver superior performance, long service life and maximum safety even in the toughest water conditions.

CONSTRUCTION (TYPICAL)

3 CORE FLAT CABLE (As per IS 694)

- Flexible Copper Conductor (Class 5)
- PVC Insulation (Type A)
- Cores laid parallel in a single plane
- PVC Sheath (FRLS, Heat Resistant)

- Fine stranded flexible copper conductor for high flexibility
- Specially formulated PVC insulation for superior electrical performance
- PVC sheath – Flame Retardant, Low Smoke & Safe for indoor & outdoor use
- Resistant to water, oil, abrasion, chemicals and sunlight

WATER RESISTANT | FLAME RETARDANT (FRLS) | HIGH FLEXIBILITY | HEAT RESISTANT -40°C to +70°C | OIL & CHEMICAL RESISTANT | ROHS COMPLIANT | SAFE & RELIABLE

ELECTRICAL & TECHNICAL CHARACTERISTICS (AT 27°C)

Parameter	Value
Rated Voltage (Uo/U)	1100 V
AC Test Voltage (50 Hz for 1 min.)	3.5 kV
Insulation Resistance (Min.)	100 MΩ.km
Current Carrying Capacity	As per IS 694
Min. Bending Radius (Fixed)	4 x Overall Diameter
Operating Temperature	-40°C to +70°C
Flame Retardant	As per IS 694 & IS 17048 (FRLS)
Smoke Density	As per IS 694
Water Resistance	Suitable for continuous submersion
Compliance	IS 694 & IS 9968
Life	40,000 Hours (Continuous)

*Cable to be used with suitable starting devices & overload protection as per pump rating and application.

CONFIGURATION

3 CORE FLAT CABLE
(As per IS 694)

- Standard Core Colours : Red, Yellow, Blue
- Cores laid parallel in a single plane (3 Core Flat Construction)

KEY FEATURES

- Flame Retardant as per IS 694 & IS 17048 (FRLS)
- High flexibility for easy handling and installation
- Low Smoke Emission – Safe for occupied spaces
- Heat Resistant – Operates up to 70°C
- High Insulation Resistance – Ensures safety & reliability
- Water & Moisture Resistant – Suitable for continuous submersion
- Uniform Thickness – For consistent performance
- Highly Durable – Long service life in harsh conditions
- RoHS Compliant – Environment friendly

COMPLIANCE & STANDARDS

- IS 694 : 2010 – PVC Insulated Unsheathed & Sheathed Cables (For Working Voltages up to and including 1100 V)
- IS 9968 : 2017 – Specification for PVC Insulated Cables for Submersible Pumps
- IS 17048 : 2018 – PVC Insulated Cables (FRLS)
- RoHS Compliant
- Tested for Safety & Performance

APPLICATIONS


Submersible Pump Sets


Agricultural Irrigation


Borewell Applications


Dewatering Pumps


Water Supply Systems


Rural & Domestic Use

IDEAL FOR TOUGH WATER CONDITIONS

Continuous Submersion | Abrasion Resistant | UV & Sunlight Resistant | Oil & Chemical Resistant | High Dielectric Strength | Safe & Reliable Performance

GULIX CABLE
POWERING POSSIBILITIES

MADE IN INDIA
FOR A STRONGER INDIA

GULIX CABLE
POWERING POSSIBILITIES

LDC HOUSE WIRES

AS PER IS 694 & IS 17048

Gulix Cable LDC House Wires are engineered to deliver safe, reliable & long-lasting electrical performance for modern living and working spaces. Manufactured strictly as per IS 694 (FR-FRLSH PVC Insulated) and IS 17048 (HFFR Insulated) standards for 1C, 2C, 3C & 4C cables.

KEY FEATURES & BENEFITS

- Flame Retardant – Prevents the spread of fire
- Low Smoke & Halogen (Acid) Free – Safe during fire
- High Insulation Resistance – Ensures electrical safety
- Excellent Flexibility – Easy to install & handle
- Heat Resistant – Suitable for high temperature environments
- Durable & Long Lasting – Reliable performance over time
- Environment Friendly – Reduces toxic emissions
- Conforms to National Standards – IS 694 & IS 17048

LDC HOUSE WIRES

AS PER IS 694 & IS 17048

FR-FRLSH (IS 694)

Flame Retardant – Flame Retardant
Low Smoke – Halogen (Acid) Free
For safe use in general wiring applications.

HFFR (IS 17048)

Halogen Free – Flame Retardant
Low Smoke – High Safety
Environment friendly with minimal smoke & toxic gases.

1C CABLE

1 Core
(Phase or Neutral)
Available in multiple sizes & colours

2C CABLE

2 Core
(Phase + Neutral)
Flexible & easy installation

3C CABLE

3 Core
(Phase + Neutral + Earth)
Ideal for appliances & power circuits

4C CABLE

3 Core
(3 Phase + Neutral)
Suitable for 3 Phase supply systems

Available Sizes: 0.5 sq.mm to 16 sq.mm | Voltage Grade: 1100V | Conductor: Annealed Electrolytic Grade Copper | Insulation: FR-FRLSH / HFFR

FR-FRLSH & HFFR PROPERTIES

PROPERTY	FR-FRLSH (IS 694)	HFFR (IS 17048)
Flame Retardancy	Passes Vertical Flame Test	Passes Vertical Flame Test
Smoke Emission	Low Smoke	Very Low Smoke
Halogen Content	Zero (Halogen Free)	Zero (Halogen Free)
Acid Gas Emission	Low (Non-Corrosive)	Very Low (Non-Corrosive)
Toxicity	Low Toxicity	Very Low Toxicity
Oxygen Index	≥ 29%	≥ 30%
Temperature Range	-15°C to +70°C	-15°C to +90°C
Application	General Wiring	Critical & High Safety Areas

IS 694
CM/L No. 8700128412

IS 17048
CM/L No. 8700128413

APPLICATIONS


Hospitals


Schools & Colleges


Airports


Residential Complex


Shopping Malls


Hotels


Commercial Buildings


Data Centers


Metro & Railways

Ideal for use in:

Homes, Offices, Hospitals, Schools, Airports, Shopping Malls, Hotels, Residential Complexes, Industrial Buildings & All General Electrical Installations.

COMPLIANT TO NATIONAL STANDARDS

- IS 694:2010 – FR-FRLSH PVC Insulated Wires
- IS 17048:2018 – HFFR Insulated Wires
- Voltage Grade: 1100V
- Tested & Certified for Safety, Qualiity & Performance

MADE FOR INDIAN CONDITIONS

ELECTRICAL SAFETY | FLAME RETARDANT | LOW SMOKE & HALOGEN FREE | ENVIRONMENT FRIENDLY | HEAT RESISTANT | HIGH RELIABILITY | TRUSTED BY PROFESSIONALS

STRONGER CONNECTIONS. SMARTER NETWORKS.
POWERING POSSIBILITIES.

GULIX CABLE

POWERING POSSIBILITIES

THANK YOU!

We appreciate your time and interest in **Gulix Cable.**
We look forward to powering a stronger,
safer and **connected future** with you.

LET'S CONNECT

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Shakti Shukla

CTO
Gulix Cable Pvt Ltd

WHY CHOOSE GULIX CABLE?

- **High Performance** — Engineered for excellence
- **Safe & Reliable** — Built for safety. Delivered with trust.
- **Flame Retardant** — FRLS / FRLSH options for enhanced fire safety
- **Environment Friendly** — RoHS Compliant & Eco-conscious
- **Durable & Long Lasting** — Tested for extreme conditions
- **Flexible & Easy to Install** — Designed for hasle free installation

SAFE & RELIABLE — Built for safety. Delivered with trust.

HIGH PERFORMANCE — Engineered for maximum performance.

FLAME RETARDANT — FRLS / FRLSH options for enhanced fire safety.

ENVIRONMENT FRIENDLY — RoHS compliant & eco-conscious.

BUILT TO LAST — Durable solutions that last for years.

Preferred by experts. Proven by performance.

POWERING TODAY. CONNECTING TOMORROW.

WIRES & CABLES FOR EVERY APPLICATION


RESIDENTIAL COMPLEXES


COMMERCIAL BUILDINGS


INDUSTRIAL PLANTS

HOSPITALS


SCHOOLS & COLLEGES


MALLS & HOTELS


AIRPORTS


METRO & TRANSPORT

MAKE IN INDIA

ISO 9001:2015 CERTIFIED

RoHS COMPLIANT

100% TESTED QUALITY ASSURED

FLAME RETARDANT & LOW SMOKE

HIGH INSULATION & SAFETY

PROUDLY MADE IN INDIA