

# Viral<sup>®</sup>

## CABLES & WIRES

CONNECTING EXCELLENCE  
SINCE 1983



- ISO CERTIFIED
- PREMIUM QUALITY
- GLOBAL SUPPLIER

MANUFACTURERS | EXPORTERS | INNOVATORS



# HI

# WHO WE ARE

Since our establishment in 1982, Viral Electronics has been at the forefront of cable manufacturing excellence. Our commitment to quality and innovation has made us a trusted name in the industry.

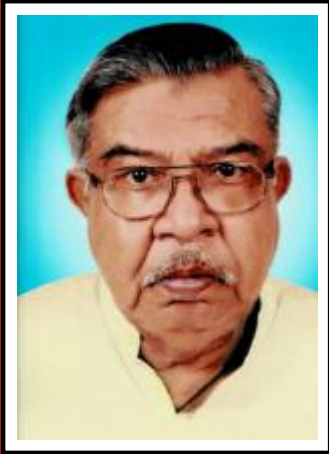
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# ABOUT COMPANY

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## GUIDED BY VISIONARY

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Under the visionary leadership of Founder & Managing Director Mr. Rajnikant S. Thakker, Viral Electronics has grown from a local manufacturer into a globally recognized brand. Supported by a skilled workforce of production professionals, quality controllers, R&D specialists, and technical experts, the company operates from a state-of-the-art 3,410 sq. meter manufacturing facility. This well-organized infrastructure—comprising dedicated manufacturing, quality testing, R&D, and warehousing units—ensures efficient production flow, stringent quality control, and timely delivery.

Under his leadership, the company has consistently focused on ethical manufacturing practices, technological advancement, and long-term client relationships. Strategic investments in modern machinery, employee skill development, and rigorous quality benchmarks have strengthened Viral Electronics' position in the market.

## OUR JOURNEY

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Since its establishment in 1982, Viral Electronics has emerged as a trusted leader in cable manufacturing, driven by an unwavering commitment to quality, innovation, and customer satisfaction. Utilizing premium PVC compounds that meet international standards such as IS, BS, ASTM, and IEC, the company delivers reliable and customized cable solutions to clients across the globe. Continuous research and development enable Viral Electronics to consistently enhance product performance while adapting to evolving industry requirements.



# ARC WELDING CABLES



## ABOUT

- ARC welding cables for welding equipment
- Normal Duty Elastomeric & HOFR variants
- Sizes from 16.00 sq. mm to 240 sq. mm

## APPLICATIONS

- ARC Welding Industry
- Fabrication Industry
- General Engineering Applications

## SPECIFICATIONS

- Bare or Tinned Copper Conductors
- Annealed High-Conductivity Copper Wires
- Complies with IS 8130:1984

## COVERINGS

- Type SE 1 – General Service Compound
- Type SE 3 – HOFR compound
- As per IS 6380:1984

## CURRENT RATING OF COPPER CONDUCTOR ELASTOMERIC CABLE

AUTOMATIC WELDING  
UP TO 100 PERCENT

SEMI-AUTOMATIC WELDING  
30 TO 85 PERCENT

MANUAL WELDING  
30 TO 60 PERCENT

VERY INTERMITTENT  
UP TO 20 PERCENT

# ARC WELDING CABLES



## THICKNESS COVERING

Nominal Cross-Sectional Area of Conductor	Nominal Thickness of Covering (TC)
mm <sup>2</sup>	mm
16	2
25	2
35	2
50	2.2
70	2.4
95	2.6
120	2.8
150	3
185	3.2
240	3.2

# MIG / TIG / CO2 WELDING TORCH CABLES



## ABOUT

- MIG / TIG / CO<sub>2</sub> Coax torch welding cables
- Normal duty elastomeric & HOFR variants
- Sizes from 16 sq. mm to 95 sq. mm

## APPLICATIONS

- Welding Industry
- Fabrication Industry
- Automotive Industry

## SPECIFICATIONS

- Conductors: Plain or Tinned Annealed Copper
- Cooling: Air-Cooled
- Duty Cycle: 60%

## COVERINGS

- Type SE 1 – General service
- Type SE 3 – Heat & oil resistant
- As per IS 6380:1984

## CURRENT RATING OF COPPER CONDUCTOR ELASTOMERIC CABLE

AUTOMATIC WELDING  
UP TO 100 PERCENT

SEMI-AUTOMATIC WELDING  
30 TO 85 PERCENT

MANUAL WELDING  
30 TO 60 PERCENT

VERY INTERMITTENT  
UP TO 20 PERCENT

# MIG/TIG/CO2 WELDING TORCH CABLES



## CURRENT RATING AT A MAXIMUM DUTY CYCLE

Nominal Cross-Sectional Area of Conductor	100%	85%	60%	30%	20%
Sq mm2	Amp	Amp	Amp	Amp	Amp
25	125	136	161	228	279
35	156	169	201	285	349
50	197	214	254	360	440
70	248	269	320	453	555
95	299	342	386	546	669

# STANDARD TPE INSULATED BATTERY CABLES



## ABOUT

- Standard battery cables for charging units & traction batteries
- Used in battery industries, railways, forklifts & solar batteries
- Sizes from 1.00 sq. mm to 400 sq. mm

## TPE FEATURES

- High Flexibility & Soft Texture
- Oil & Acid Resistant
- Shock Absorbing with ergonomic Comfort

## SPECIFICATIONS

- Conductors: Plain annealed copper (IS 8130:1984)
- Flexibility: Class 6 Type (IS 8130:1984)
- Temperature: Up to 90°C (optional 200°C)

## COVERINGS

- Type SE 1 – General service
- Type SE 3 – Heat & oil resistant
- As per IS 6380:1984

# STANDARD TPE INSULATED BATTERY CABLES



## CURRENT RATING OF COPPER CONDUCTOR ELASTOMERIC CABLE

Nominal Cross-Sectional Area of Conductor	Maximum diameters of % kW.S in Conductor	Maximum Resistance of Conductor @ 20° C 85 % Duty Cycle
Sq mm <sup>2</sup>	mm	Ohm/km
10	0.21	1.91
16	0.21	1.21
25	0.21	0.78
35	0.21	0.554
50	0.31	0.386
70	0.31	0.272
95	0.31	0.206

# SUPERFLEX TPE BATTERY CABLES



## ABOUT

- Superflex battery cables for charging units & traction batteries
- Used in battery industries, railways, forklifts & solar batteries
- Sizes from 10.00 sq. mm to 95 sq. mm

## TPE FEATURES

- Superflex & Soft Texture
- Oil & Acid Resistant
- Shock Absorbing with ergonomic Comfort

## SPECIFICATIONS

- Conductors: Plain annealed copper (IS 8130:1984)
- Flexibility: Class 6 Type (IS 8130:1984)
- Temperature: Up to 90°C (optional 200°C)

## COVERINGS

- Type SE 1 – General service
- Type SE 3 – Heat & oil resistant
- As per IS 6380:1984

# SUPERFLEX TPE BATTERY CABLES



## CURRENT RATING OF COPPER CONDUCTOR ELASTOMERIC CABLE

Nominal Cross-Sectional Area of Conductor	Maximum diameters of % kW.S in Conductor	Maximum Resistance of Conductor @ 20° C 85 % Duty Cycle
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# HIGH VOLTAGE CABLES



## HIGH VOLTAGE IGNITION CABLES

### ABOUT :

- High voltage ignition cables for ignition systems
- Used in food industry, automobiles & aircraft
- For connecting ignition transformers to spark plugs/electrodes

### KEY FEATURES :

- Heat resistance: Up to 200°C (peak 250°C)
- Excellent oxidation resistance
- Excellent water absorption resistance



## HIGH VOLTAGE TEST CABLES

### ABOUT :

- High Voltage (HV) cables for testing applications
- Used as test leads for automatic capacitance test sets
- Suitable for tan delta test sets

### KEY FEATURES :

- High voltage cables for industrial use
- Custom-built from 2 kV to 100 kV capacity
- Conductor Material : Copper

# MULTI SHIELDED INSTRUMENTATION CABLE



## ABOUT

- Multi Core Shielded Instrumentation Cables for accurate process measurement & control
- Used in power, chemical, fertilizer, sugar & other industries
- Electrostatic shielding prevents external interference, signal leakage & cross-talk

## INSULATION

- Insulation options: PVC, FRLS (70°C / 105°C), Polyethylene
- Special compounds: TPE, HOFR
- Silicon rubber insulation available on request

## SHEATHING

- Sheathing options: PVC, FRLS (70°C / 105°C), Polyethylene
- Special materials: TPE, HOFR
- Silicon rubber sheathing available on request

## SHIELDING

- Aluminum Mylar tape with ECC & drain wire
- Individual and/or overall shielding as specified
- Braided shielding: Bare / Tinned / SPC options

## RANGE

- Cable range: 0.22 sq. mm to 2.5 sq. mm (higher on request)
- Conductor types: Bare / Tinned electrolytic copper
- Options: SPC, solid or stranded copper

## SPECIFICATION

- BS-5308 (Part-I or II)
- IEC-189 (Part-I or II)
- Armouring: G.I. steel wire or strip armoured

# MULTIPAIR SHIELDED INSTRUMENTATION CABLE



## ABOUT

- Multi Core Shielded Instrumentation Cables for accurate process measurement & control
- Used in power, chemical, fertilizer, sugar & other industries
- Electrostatic shielding prevents external interference, signal leakage & cross-talk

## INSULATION

- Insulation options: PVC, FRLS (70°C / 105°C), Polyethylene
- Special compounds: TPE, HOFR
- Silicon rubber insulation available on request

## SHEATHING

- Sheathing options: PVC, FRLS (70°C / 105°C), Polyethylene
- Special materials: TPE, HOFR
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## SHIELDING

- Aluminum Mylar tape with ECC & drain wire
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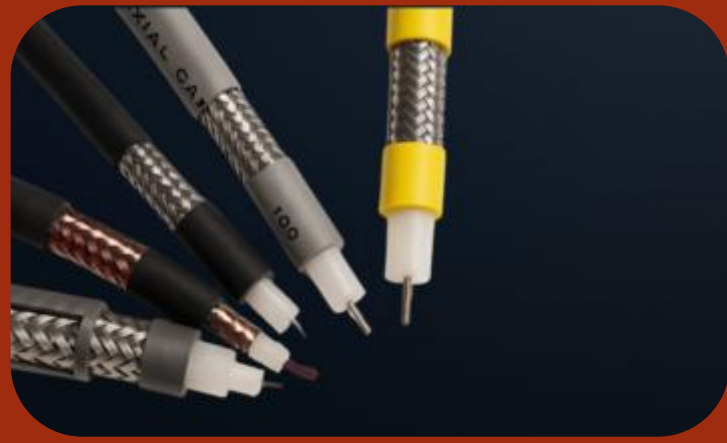
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- Conductor types: Bare / Tinned electrolytic copper
- Options: SPC, solid or stranded copper

## SPECIFICATION

- BS-5308 (Part-I or II)
- IEC-189 (Part-I or II)
- Armouring: G.I. steel wire or strip armoured

# RADIO FREQUENCY CABLE



## TRI-AXIAL RF CABLES

- Radio Frequency Tri-Axial cables with double shielding and solid/stranded centre conductor
- Enables multiplexing and multiple signal functions
- Used for professional TV studios & outdoor broadcasting
- Double screened design ensures perfect grounding
- Designed for high wear resistance, flexibility & ageing resistance
- Available with various jacket compounds on request



## CO-AXIAL RF CABLES

- Radio Frequency Co-Axial cables with 50-ohm impedance
- Suitable for low & high power RF connections
- Used in microwave antennas & cellular applications
- RG59 precision coaxial video cables for analogue & digital signals
- Ideal for live broadcasting and network studios
- Narrow tolerances & improved shielding ensure superior signal integrity

# HOUSE & ELECTRIC PANEL WIRING WIRES



## ABOUT

We at Viral Electronics manufacture House & Electric Panel Wiring Wires. Wiring Cables, PVC insulated Sheathed / Unsheathed with plain annealed electrolytic copper conductor conforming to IS: 694:1990 for working voltages upto and including 1100V.

## TECHNICAL SPECIFICATIONS

Area sq mm	No. & Dia. Of Wires (Nom.) mm	Insulation & Thickness (Nom.) mm	Approx. Overall Diameter r mm	Insulation n Thickness (Nom.) mm
1	1/1.13	0.7	2.6	0.6
1.5	1/1.38	0.7	2.9	0.6
2.5	1/1.78	0.8	3.5	0.7
4	1/2.25	0.8	4	0.8
4	7/0.85	0.8	4.3	0.8

# MULTICORE FLEXIBLE CABLES



## ABOUT

- PVC insulated multi-core flexible cables
- Suitable for machine tools, appliances & control panels
- Widely used across machinery and all types of industries

## CONDUCTORS

- Bright electrolytic grade copper conductors
- Annealed for high conductivity & flexibility
- Bunched construction for improved performance

## INSULATION

- Special in-house PVC insulation compound
- High insulation resistance values
- Uniform insulation on bunched conductors

## SHEATH

- Laid-up insulated cores forming compact core assembly
- Color-coded inner cores as per national/international standards
- Special PVC sheath for easy stripping & abrasion resistance

## ARMOURING

- G.I. steel wire armouring
- G.I. steel strip armouring
- Enhanced mechanical protection

## SPECIFICATION

- Strict quality checks from raw material to finished product
- Manufactured as per IS 694:1990 standards
- Wide size range with assured national & international compliance

# MULTICORE FLEXIBLE CABLES







## TECHNICAL SPECIFICATIONS





Name	Core Colors	Sheath Colors
Single Core Unsheathed	Red, Yellow, Blue, Grey, Green	Unsheathed
Single Core Sheathed	Black	Black or White
Twin Twisted	Red & Black	Black or Grey
Twin Flat Sheathed	Red & Black	Black or Grey
2 Core Round Sheathed	Red & Black	Black or Grey
3 Core Round Sheathed	Red, Black, Yellow/Green (earth)	Black or Grey
4 Core Round Sheathed	Red, Yellow, Blue, Yellow/Green (earth)	Black or Grey
5 Core Round Sheathed	Red, Yellow, Blue, Black, Grey	Black or Grey

# GET IN TOUCH

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