

# TRICONIX

WIRES & CABLES



## Products

- HRFR
- FR-LSH



## Features



Flame Retardant



Energy Saving Wires



High Purity Copper



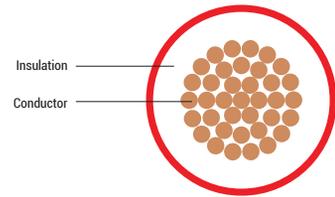
Easy To Pull Inside Conduits



Virgin Grades PVC Resin

# TRICONIX FR

## TRICONIX CABLES AND WIRES



REACH and RoHS Compliant Cable | Flame Retardant Cable.

### Application

Suitable for wiring in all types of residential and commercial infrastructure, where fire and electrical safety is utmost important.

### Technical Data

**Approvals :** IS 694 marked, FIA/TAC

**Voltage Grade :** Up to and including 1100V

**Conductor :** Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility. The strands are twisted with high precision to impart circularity for the conductor.

**Insulation:** Specially formulated flame retardant PVC insulation is used. The FR property retards the propagation of flame without compromising safety.

**Insulation Conformity :** IS 5831, Type A/D FR 70o C

**Colours :** Red, yellow, blue, black, green, grey & white

**Marking :** The cables are printed with marking of TRICONIX FR' from 1 Sq. mm to 16 Sq. mm.

**Packing :** 90 mtr. coil is packed in protective cartons upto size 6 Sq. mm. Project packing of 180 mtr. also available.

### Cable Design Parameters

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required:

01 - green, 02 - black, 03 - red, 04 - blue, 05 - yellow, 06 - grey, 07 - white.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Number *Nominal Dia. of Strands	Approx. Overall Diameter (mm)	Max. DC Conductor Resistance at 200C (Ω/km)	Current Rating (Amps)	
						Casing	Concealed
01010102xx20	0.75**	0.6	24/0.2	2.3	26.0	9	8
01010103xx20	1	0.7	14/0.3	2.7	18.1	14	13
01010104xx20	1.5	0.7	22/0.3	3.0	12.1	18	16
01010105xx20	2.5	0.8	36/0.3	3.7	7.41	24	20
01010106xx20	4**	0.8	56/0.3	4.1	4.95	30	26
01010107xx20	6**	0.8	84/0.3	4.6	3.30	38	33
01010108xx20	10**	1.0	140/0.3	7.0	1.91	52	45
01010109xx20	16**	1.0	126/0.4	8.1	1.21	70	60

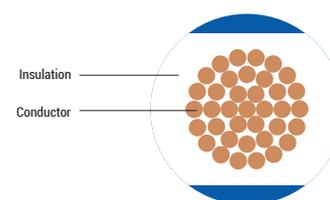
\*Conductor as per IS 8130

\*\*Insulation Type D as per IS 5831

### Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 P-58	> 29%
Limited Temp. Index	IS 10810 P-64	>250 °C

# TRICONIX FR-LSH



REACH Compliant Cable | Flame Retardant Low Smoke Low Halogen.

## Application

Suitable for use in conduit and for fixed, protected installation particularly suitable for wiring in fire and explosion prone areas, chemical factories, densely wired areas, public buildings, schools, hospitals, commercial complexes, theatres, etc.

## Technical Data

**Approvals :** IIS 694 marked, FIA/TAC

**Voltage Grade :** Up to and including 1100V

**Conductor :** Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility

**Insulation :** Specially formulated flame retardant low smoke low halogen compound to restrict the spread of flames in fire situation. The smoke emitted by the burning cable is considerably low compared to traditional cables. This ensures improved visibility for evacuation of trapped victims and facilitates fire fighting operation.

**Insulation Conformity :** IS 5831 Type A/D FR-LSH 70°C

**Colours :** Entire cable has white base and a double strip of Green, Black, Red, Yellow, Blue, Grey, running along the cable length

**Marking :** The cables are printed with the marking of 'TRICONIX FR-LSH'

**Packing :** 90 mtr. coils packed in protective cartons. Project coils of 180 mtr. also available.

## Cable Design Parameters

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required:

01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Grey.

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Number *Nominal Dia. of Strands	Approx. Overall Diameter (mm)	Max. DC Conductor Resistance at 200C (Ω/km)	Current Rating (Amps)	
						Casing	Concealed
01020101xx50	1	0.7	14/0.3	2.7	18.1	14	13
01020102xx50	1.5	0.7	22/0.3	3.0	12.1	18	16
01020103xx50	2.5	0.8	36/0.3	3.7	7.41	24	20
01020104xx50	4**	0.8	56/0.3	4.1	4.95	30	26

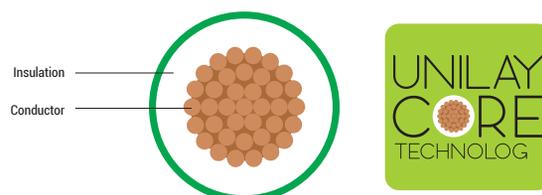
\*Conductor as per IS 8130.

\*\*Insulation Type D as per IS 5831.

## Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 P - 58	> 29%
Limited Temperature Index	IS 10810 P - 64	> 2500C
Smoke Density (Light Absorption)	IS 13360 P - 6/Sec 9	< 60%
Acid Gas Generation	IS 10810 P - 59	< 20%

# TRICONIX HR FR



**Heat Resistant and Flame Retardant REACH Compliant Cable**  
**No Loose Contacts, No Broken Ends | No Sparking and Overheating**

## Application

Suitable for use in conduit and for fixed, protected installation, ideal for high density wiring.

## Technical Data

**Approvals** : IS 694 marked, FIA / TAC

**Voltage Grade** : Up to and including 1100V

**Conductor** : Thin strands of electrolytic copper are multi-drawn for uniformity of resistance, dimension and flexibility. The drawn strands are uni-laid with high precision and compacted. Thus forming a perfectly circular conductor which enables reduction in overall diameter for space saving in high density wiring.

**Conductor Speciality** : The strands do not get cut when stripping the insulation. The conductor offers perfect contact at pins, terminals and sockets. Thus, eliminating spot heating and sparking.

**Insulation** : Specially formulated heat resistant & flame retardant PVC insulation is used. The HR FR property retards the propagation of flame without compromising safety.

**Insulation Conformity** : IS 5831, Type C - HR 85°C + FR

## Cable Design Parameters

Kindly complete the part numbers for these cables by adding the suffix (in place of 'xx') for the colour required:

01 - Green, 02 - Black, 03 - Red, 04 - Blue, 05 - Yellow, 06 - Grey, 07 - White

Part Number	Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Number *Nominal Dia. of Strands	Approx. Overall Diameter (mm)	Max. DC Conductor Resistance at 200C (Ω/km)	Current Rating (Amps)	
						Casing	Concealed
01030101xx40	1.0	0.7	37/0.19	2.6	19.5	14	13
01030102xx40	1.5	0.7	37/0.23	3.0	13.3	18	16
01030103xx40	2.5	0.8	61/0.23	3.6	7.98	24	20
01030104xx40	4.0	0.8	61/0.29	4.1	4.95	32	26
01030105xx40	6.0	0.8	91/0.29	4.6	3.30	38	33

\*Conductor as per IS 8130

## Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 P-58	> 29%
Limited Temp. Index	IS 10810 P-64	>250 °C

**INDUSTRIAL  
CABLES**

**TRICONIX**  
WIRES & CABLES

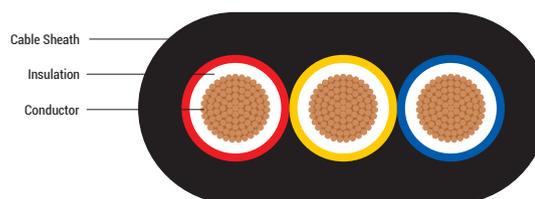
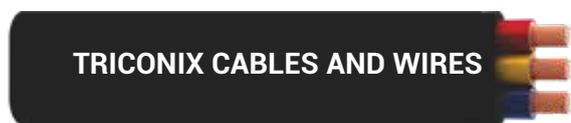


## **Products**

- **MULTISTRAND MULTICORE CABLE**

# PVC/PVC 3 CORE SUBMERSIBLE FLAT CABLE

REACH | RoHS | CE



## Application

The PVC insulated and sheathed 3 core flat cables are mainly used in pump connections. They are also used in many industrial applications.

The sheath is specially made out to resist tough and difficult outdoor conditions & excellent resistant to water.

## Technical Data

**Approvals :** IS 694 marked, FIA/TAC

**Conductor :** Electrolytic grade annealed copper

**Core Colour :** Red, yellow (centre core), blue

**Sheath Colour :** Black

**Voltage Grade :** Upto and including 1100V

**Packing :** Standard packing of 100 mtr. in coils. Longer length available on request.

## Variants Available

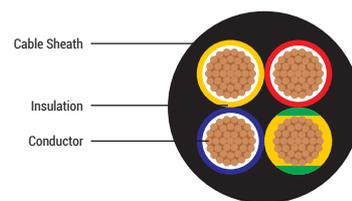
Part Numbers	Specifications
PVC 70°C	IS 694, IS 8130 Class 2 (1.5 & 2.5 Sq. mm), for others class 5, IS 5831 Type A insulation & ST-1 sheath.
HR 85°C	IS 694, IS 8130 Class 2 (1.5 & 2.5 Sq. mm), for others class 5, IS 5831 Type C insulation & ST-2 sheath.

## Cable Design Parameters

Kindly complete the part numbers for these cables by adding the suffix (in place of 'y') for the cable type

1 – PVC 70°C, 3 - PVC HR 85°C.

Part Number	Conductor construction		Conductor resistance at 20 °C (Ω/km) Max.	Nom. Insulation thickness (mm)	Nominal Sheath Thickness (mm)	Approx. overall dimensions (W X H) (mm) +/- 0.5 mm	Current carrying capacity (Ampere)
	Cross sectional area (Sq. mm)	No./Max. dia of strands (mm)					
0118110102y1	0.5	16/0.2	39.0	0.6	0.9	9.60 X 4.90	4
0118110202y1	0.75	24/0.2	26.0	0.6	0.9	10.5 X 5.20	7
0118110302y1	1	32/0.2	19.5	0.6	0.9	11.0 X 5.40	12
0118110402y1	1.5*	22/0.3	12.1	0.6	0.9	12.0 X 5.6	18
0118110502y1	2.5*	36/0.3	7.41	0.7	1.0	13.0 X 6.2	24
0118110602y1	4	56/0.3	4.95	0.8	1.0	15.3 X 7.1	28
0118110702y1	6	84/0.3	3.30	0.8	1.1	19.2 X 8.4	36
0118110802y1	10	140/0.3	1.91	1.0	1.4	24.2 X 10.4	48
0118110902y1	16	126/0.4	1.21	1.0	1.4	29.0 X 12.4	64
0118111002y1	25	196/0.4	0.78	1.2	2.0	36.5 X 15.7	80
0118111102y1	35	276/0.4	0.554	1.2	2.0	40.5 X 17.2	100
0118111202y1	50	396/0.4	0.386	1.4	2.2	46.5 X 19.3	130
0118111302y1	70	360/0.5	0.272	1.4	2.2	52.0 X 21.0	192
0118111402y1	95	480/0.5	0.206	1.6	2.4	61.0 X 24.5	230



## Application

These cables are designed for residential and commercial infrastructure. They serve as the connecting medium in power and control panels, cabinets & switchgears. They can also be used for the purposes such as stationary and static appliances, motors and for other single phase connections.

**TRICONIX -M:** PVC insulated & sheathed multicore cables suitable for all general purpose wirings for max. operating temperature of 70°C.

**TRICONIX -M HR:** HR PVC insulated & sheathed multicore cables suitable for higher operating temperature of 70°C.

**TRICONIX -M FR:** Flame Retardant (FR) multicore cable enhances safety and are suitable for max. operating temperature **TRICONIX -M HRFR:** Heat Resistant (HR) & Flame Retardant (FR) multicore cables are suitable for higher operating temperature up to 85°C with enhanced safety.

**TRICONIX -M FR-LSH:** Flame Retardant Low Smoke Low Halogen (FR-LSH) cables are suitable for wiring in public places like schools, hospitals, theatres, etc.

## Technical Data

**Approvals :** IS 694 marked, FIA/TAC

**Conductor :** Electrolytic grade annealed copper Class 5 as per IS 8130

**Standard Cable Colour :** Black, grey & white

**Voltage Rating :** Up to and including 1100V

**Packing :** Standard packing of 100 mtr. in coil. Longer length available on request

## Variants Available

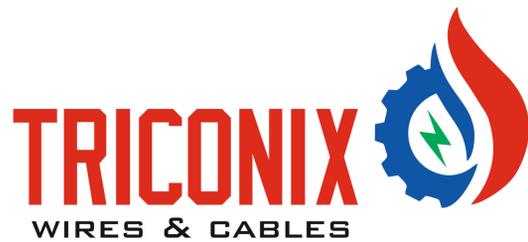
Product Type/Legends	Specifications
TRICONIX-M	IS 694, IS 8130 Class 5, IS 5831 Type D for insulation & ST-3 & for sheathing
TRICONIX-M HR	IS 694, IS 8130 Class 5, IS 5831 Type C for insulation & ST-2 for sheathing
TRICONIX-M FR	IS 694, IS 8130 Class 5, IS 5831 Type D for insulation & ST-3 (FR) & for sheathing
TRICONIX-M HR FR	IS 694, IS 8130 Class 5, IS 5831 Type C for insulation & ST-2 (FR) for sheathing
TRICONIX-M FR-LSH	IS 694, IS 8130 Class 5, IS 5831 Type D for insulation & ST-3 (FR-LSH) for sheathing

Please complete the part numbers for these cables by adding the suffix (in place of 'xx') for the insulation colour required.  
 06 - green-yellow earth core. We offer green/yellow earth core as our standard product.  
 00 - without green-yellow earth core (available on request).

Kindly complete the part numbers for these cables by adding the suffix (in place of 'y') for the product type required.  
 1 - PVC 70°C, 2 - PVC FR 70°C, 3 - PVC HR 85°C, 4 - PVC HR 85°C + FR, 5 - PVC FR-LSH 70°C.

Kindly complete the part numbers for these cables by adding the suffix (in place of 'z') for the sheath colour required.  
 1 - black, 4 - grey, 5 - white.

Kindly add 'OU' after the part number, for the cables required for outdoor application.



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### **International Office**

Regd. International Office : Triconix Industrial Solutions QFZ, Unit RA10,  
Airport Free Zone, Ras Bu Fontas, Doha, Qatar

### **Branch Office**

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Nayandahalli, Bangalore - 560039

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**REACH** = Registration, Evaluation, Authorisation and Restriction of Chemicals

**RoHS** = Restriction of Hazardous Substances | **CE** = Conformance Européenne

**ISI** = Indian Standard Institution