RAJDHANI®

LIGHTING LIVES SINCE 1969

RAJDHANI WIRES & CABLES

WIRED FOR SAFETY

GCG GROUP

CENTURY® WIRES & CABLES

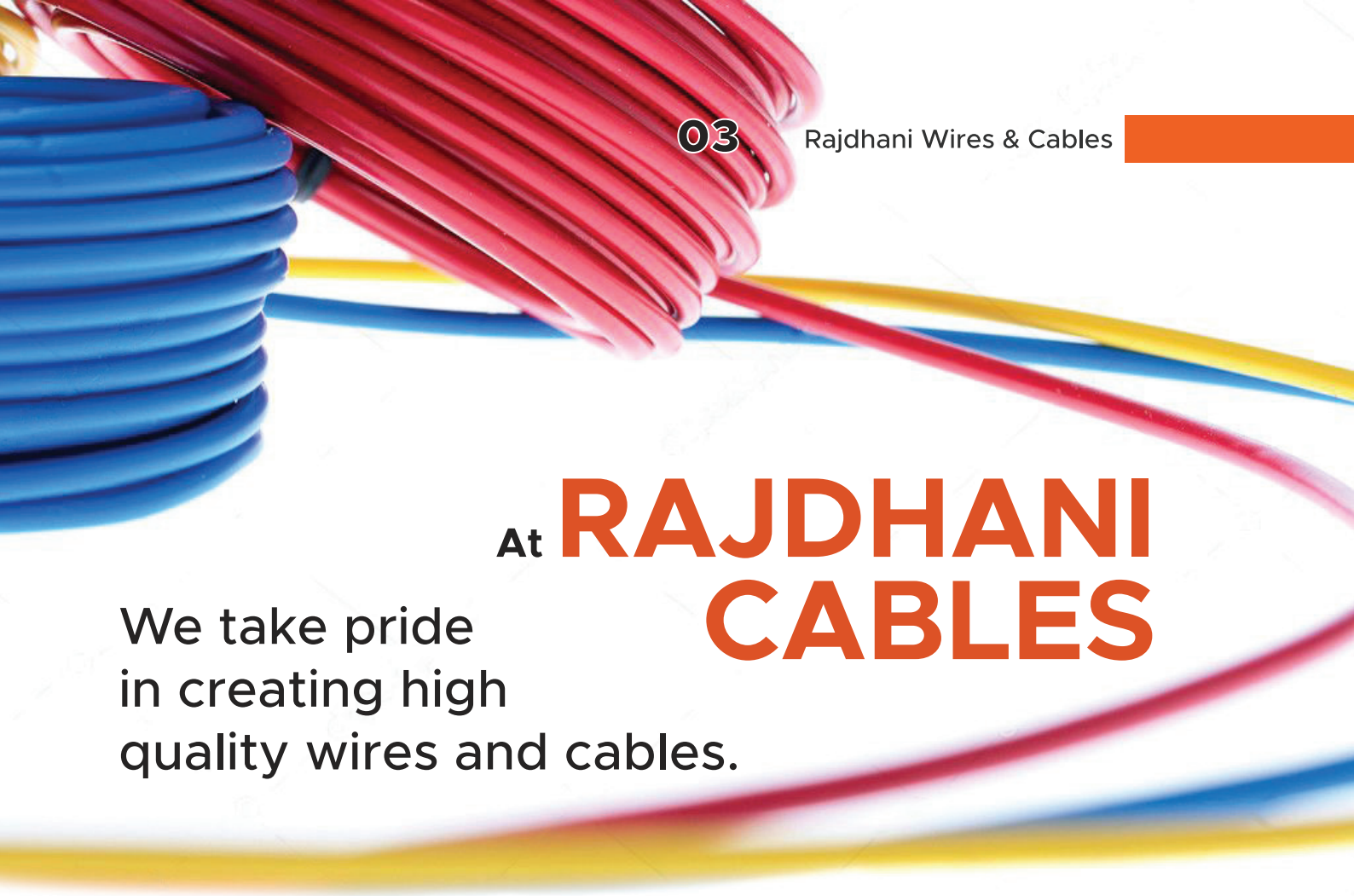
WE ARE RAJDHANI CABLES

RAJDHANI WIRES & CABLES is a third-generation, family-owned wire and cable manufacturer founded in 1969. We are committed to producing the finest quality products at affordable prices. Our diverse network of dealers enables us to power hundreds of homes and establishments safely all over India.

When it comes to custom solutions, **RAJDHANI CABLES** finds the right fit for each customer – combining manufacturing capacity for made-to-order products with short lead times and low minimum orders. We promise to deliver solutions as unique as your needs. Recently, we debuted our offshoot brand Century Cables designed to meet the needs of ever growing demand

At **RAJDHANI**, the customer is always first. Our belief is to keenly listen to and understand our customers' needs to ensure the right products are delivered on time. From manufacturing, to distribution and sales, our reputation for building safe spaces is reflected in our long-lasting customer relationships and repeat business.

For more than half a century, **RAJDHANI CABLES** has served customers' wire, cable and wire management needs. Our founder, late Gyan Chand Goyal, a visionary rose from a humble origin. He was a man of vigor, principles and conviction. Under his strong leadership, the company reached scaling heights and has been recognized as a nationwide/statewide leader in the industry. Among many other laurels, Calcutta Electrical Traders Association conferred a Lifetime Achievement award on him in 2008. His legacy is carried on in the way Rajdhani Cables continues to grow.



At RAJDHANI CABLES

We take pride in creating high quality wires and cables.

choosing the right wiring system can ensure safety and peace of mind for all concerned.

For most people, a wire is an indistinguishable part of the electrical system in homes and offices. It has a simple role to play deliver current from the source of power to all electrical devices. Nothing more, nothing less. But things are not as simple as that, for many reasons.

Choosing the right wire is a critical part of ensuring a safe and productive environment whether at home or at work. It's a fact that most electrical wires either start or get escalated due to faulty or low-cost wires. Compromising on the quality of wires you use is inviting the danger of fire into your lives.

At Rajdhani, we take pride in creating high quality wires and cables. Awarded the ISO 9001- 2015 for our quality systems, we follow the concept of Total Quality Management (TQM) in every aspect of our functioning: from selecting the raw material to design, manufacturing, packaging and distribution. Every wire and cable manufactured by Rajdhani carries the assurance of genuine quality.

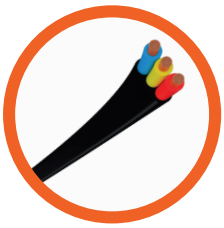
RAJDHANI®
WIRES & CABLES

CENTURY®
WIRES & CABLES

Product Range

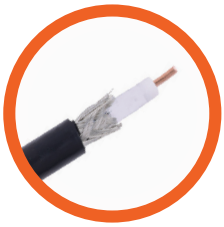
SINGLE CORE CABLES

MULTI CORE CABLES

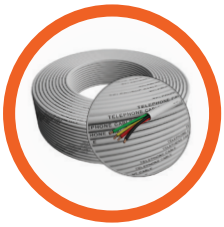


SUBMERSIBLE FLAT CABLES

ALUMINIUM SERVICE CABLES



CO-AXIAL CABLES



TELEPHONE CABLES

CCTV CABLES

SPECIAL CABLES

SPEAKER CABLE

Certified By

FLAME RETARDANT CABLE FR CABLE

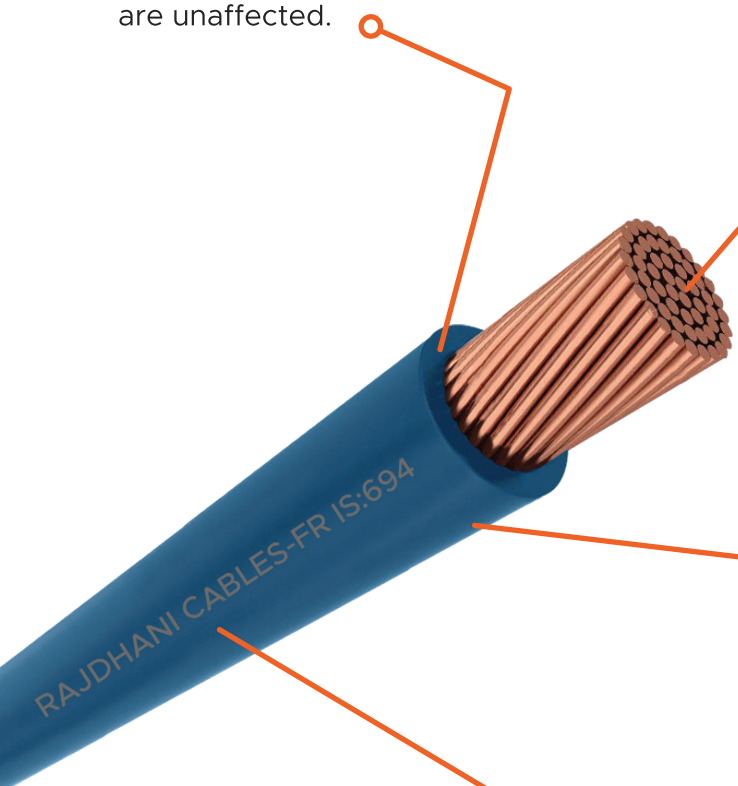
SPECIFICATIONS Generally conforms to, IS-694:2010, IS: 5831 & IS: 10810

INSULATION

The conductor is insulated with FR Grade PVC Compound having high insulation resistance, oxygen index, temperature index and dielectric Strength, which prevents leakage of electric current. The flame retardant properties minimize the spread of fire which ensure complete safety during overload & short circuits. Thus, the electronic printed circuit boards, hard disks and other sensitive electronic equipment are unaffected.

APPLICATION

Used in wiring in houses, as well as other domestic wiring purposes, due to its flame retardant property. Also finds use in some commercial and industrial projects.



CONDUCTOR

Thin strands of Electrolytic Copper are multidrawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. Flame retardant cables are made of Electrolytic Grade, bright annealed bare copper with 100% conductivity conforming to IS: 8130:2013.

COLOURS

Black, Red, Blue, Yellow, Green & Grey. Special colours can also be provided on request.

MARKING

The cables are marked “RAJDHANI CABLES-FR (Size)1100V IS:694 CM/L NO-9614686”.

FRLSH CABLE FLAME RETARDANT LOW SMOKE HALOGEN CABLE

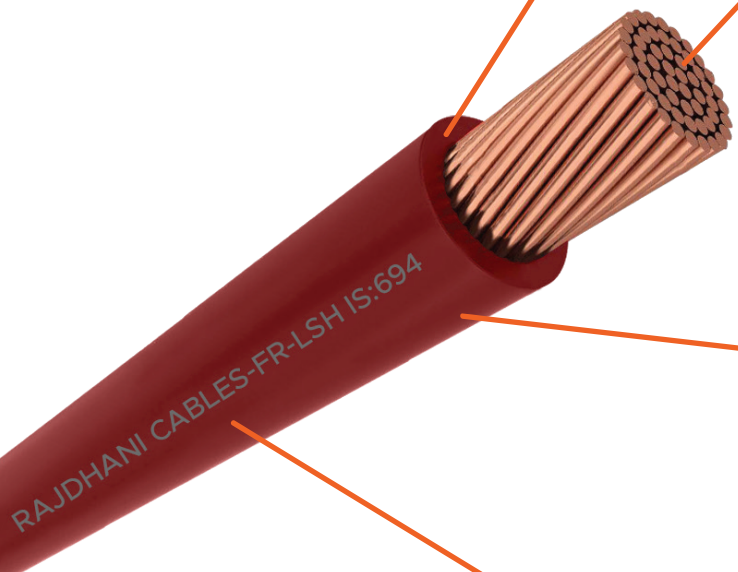
SPECIFICATIONS Generally conforms to, IS-694:2010, IS: 5831 & IS: 10810.

APPLICATION

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

INSULATION

The conductors are insulated with FR-LSH Compound with oxygen index of >29% which increases its efficiency in fire fighting. FR-LSH Cables produce very less toxic gases during burning as compared to general PVC insulated wire. This ensures improved visibility for evacuation of trapped victims and facilitates fire-fighting operations.



CONDUCTOR

Thin strands of Electrolytic Copper are multi–drawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. FR-LSH Cables are made of Electrolytic Grade, bright annealed bare copper with 100% conductivity conforming to IS: 8130:2013

COLOURS

Double strips of Silver Grey or bright orange on base colour Red, Yellow, Blue, Black, and Green running along the length of the cable. Special colours can also be provided on request.

MARKING

The cables are marked “RAJDHANI CABLES-FR-LSH (Size)1100V IS:694 CM/L NO-9614686”.

HEAT RESISTANT FLAME RETARDANT CABLE HRFR CABLE

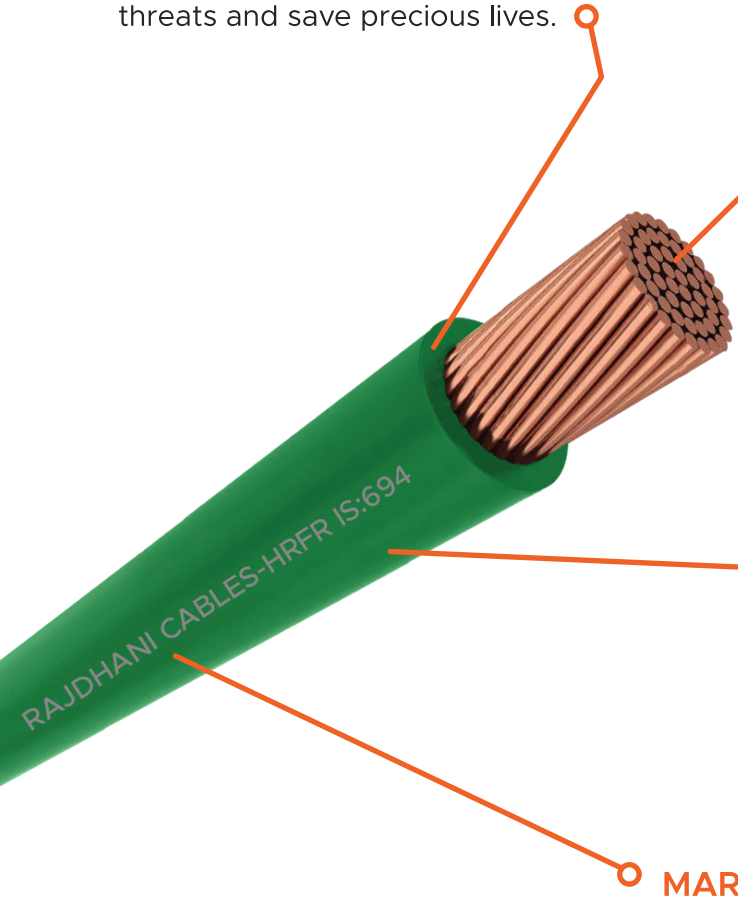
SPECIFICATIONS Generally conforms to, IS-694:2010, IS: 5831 & IS: 10810.

APPLICATION

Wiring in all installations where fire safety is more important. Schools, theaters, commercial complexes, air conditioned apartments, high rise buildings, fire alarms and emergency lighting circuits.

INSULATION

HRFR (Heat Resistant Flame Retardant) Cables are made with a non PVC material specially formulated with the help of advanced polymer technology. It does not emit highly corrosive halogen acid gases / toxic fumes and has almost nil smoke. These cables are crucial in high technology and heavy footfall areas to combat fire threats and save precious lives.



CONDUCTOR

HRFR Cables are made of bright annealed bare copper of highly electrolytic grade with more than 100% conductivity conforming to IS 8130:2013. Thin strands of Electrolytic Copper are multi–drawn simultaneously for uniformity of Resistance Dimension, and Flexibility. The drawn strands are bunched in high precision machines. A circular conductor is thus formed

COLOURS

Black, Red, Blue, Yellow, Green & Grey. Special colours can also be provided on request.

MARKING

The cables are marked “RAJDHANI CABLES-HRFR (Size) 1100V IS:694 CM/L NO-9614686”.

SPECIFICATIONS Generally conforms to, IS-694:2010, IS: 5831 & IS: 10810.

MULTICORE CABLES

INSULATION

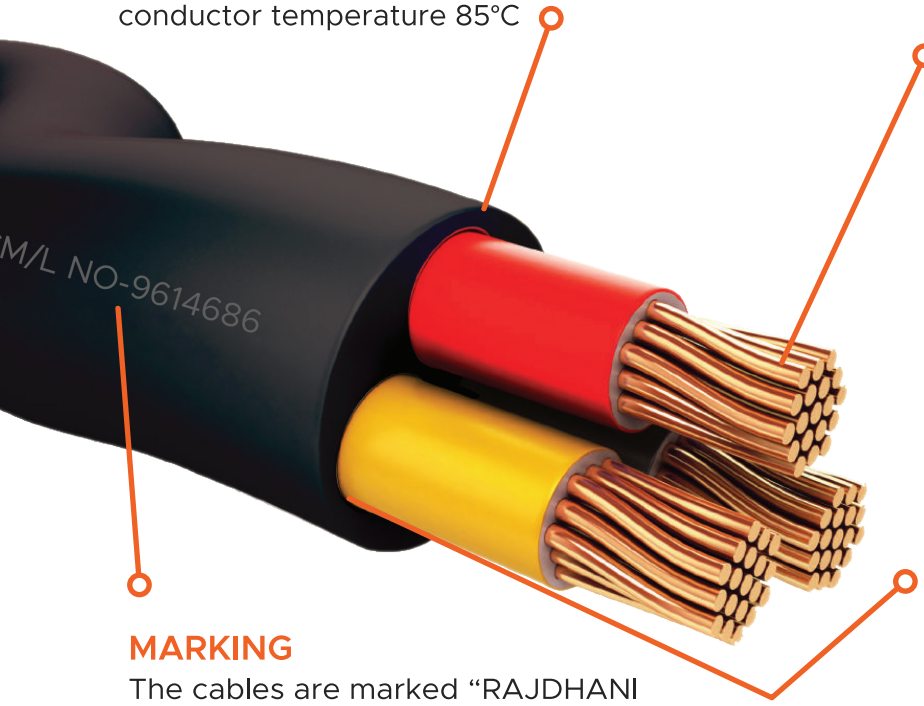
The Conductors are insulated with FR Grade PVC Compound having high insulation resistance, oxygen index, temperature index and dielectric strength, which prevents leakage of electric current. The flame retardant Properties minimize the spread of fire which ensure complete safety from shocks, short circuits & fire.

PVC Type A of IS 5831:1984 for maximum conductor temperature 70°C

PVC Type C of IS 5831:1984 for maximum conductor temperature 85°C

APPLICATION

Multicore Cables are very versatile and can be used in control panels for heavy industries, heavy machineries, air-condition, motors, outdoor connection purpose etc.



CONDUCTOR

Thin strands of Electrolytic Copper are multi–drawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. Multicore cables are made of Electrolytic Grade, bright annealed bare copper with 100% conductivity conforming to IS: 8130: 2013.

MARKING

The cables are marked “RAJDHANI CABLES-FR (Size)1100V IS:694 CM/L NO-9614686”

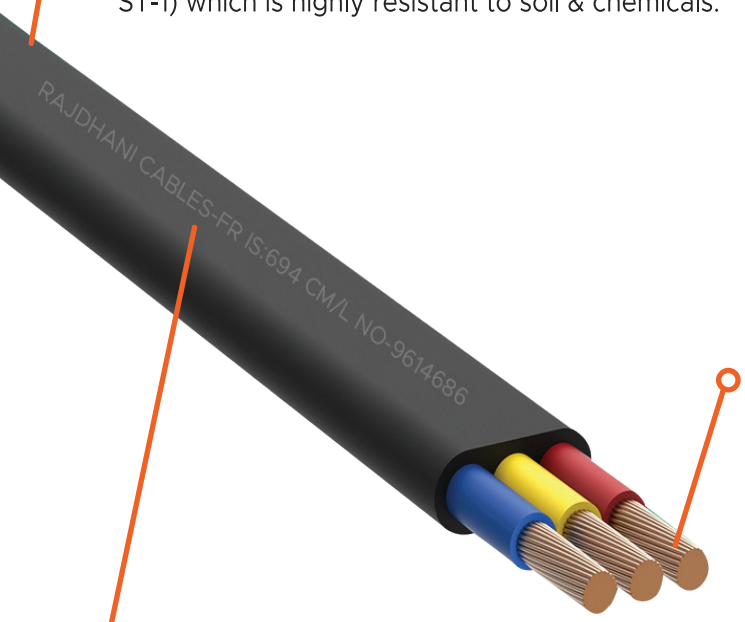
COLOURS:

The Outer Sheath is Black in colour. The inner cores colours are mentioned below. The company retains the right to change the colour. Special colours can also be provided on request.

Two Core Cable	Three Core Cable	Four Core Cable	Five Core cable	6 Core Cable & Above
Red & Black	Red, Black & Yellow-Green	Red, Yellow, Blue & Yellow-Green	Red, Yellow, Blue Black & Grey	Two adjacent cores in each layer Blue and Yellow remaining cores Grey with numbers

SUBMERSIBLE FLAT CABLE

INSULATION
The bunched conductors are insulated with specially formulated high grade FR PVC compound which gives very high insulation resistance value. The insulated core Red, Yellow, Blue are laid up in the flat parallel position. The outer sheath is provided with specially formulated PVC compound (type ST-1) which is highly resistant to soil & chemicals.



SPECIFICATIONS Generally conforms to, IS-694:2010, IS: 5831 & IS: 10810

APPLICATION
These flat submersible cables are used to connect the underwater submersible pump set with supply lines for agriculture irrigation, domestic installation, power supply and other applications. The submersible cable is a specialized product and is used for submersible pumps in deep wells. The area of installation is physically restrictive and the environment is very hostile. Goldmedal cables are designed and manufactured keeping in mind these factors to achieve the highest possible reliability.

CONDUCTOR
Thin strands of Electrolytic Copper are multi–drawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. Multicore cables are made of Electrolytic Grade, bright annealed bare copper with 100% conductivity conforming to IS: 8130: 2013

MARKING
The cables are marked “RAJDHANI CABLES-FR (Size)1100V IS:694 CM/L NO-9614686

COLOUR OF SHEATH Black

COLOUR OF CORES
Red, Yellow & Blue

SELECTION GUIDE FOR 3 CORE FLAT CABLES

HP Vs Current
The full load current for submersible pump motors, 3 phase, 50 cycles, 415-425 V

HP	5.0	7.5	10.0	12.5	15.5	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
AMP	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.8	108.0

ALUMINIUM CABLE

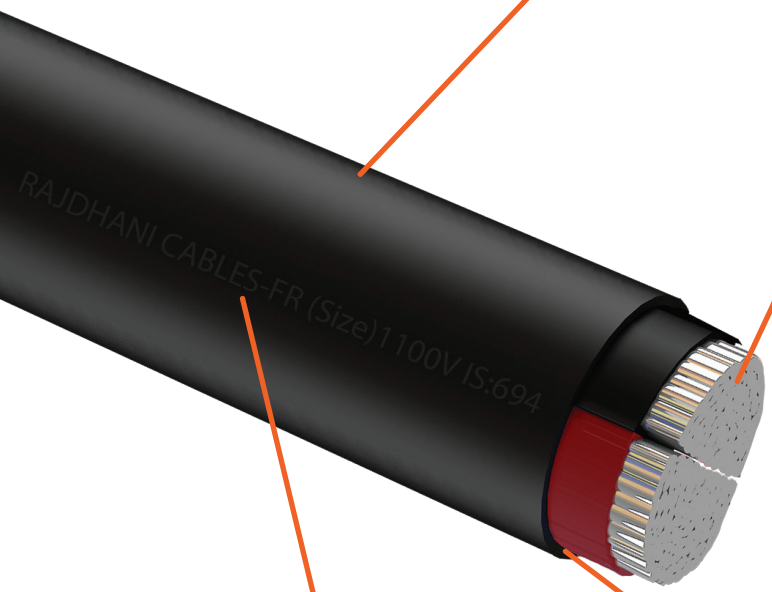
SPECIFICATIONS Generally conforms to, IS-694

INSULATION

The bunched or solid conductors are insulated with specially formulated high grade PVC compound which gives very high insulation resistance value. The outer sheath is provided with specially formulated compound which is highly resistant to exterior conditions

APPLICATION

These aluminium cables come under various sizes used mainly to draw connection from the poles. They are also used for temporary connections where the duration of the work is not very long. They are used in places where the cable will be under threat of theft



CONDUCTOR

Solid or Stranded form of soft aluminium conforming to the best quality is used

COLOURS

The Outer Sheath is Black in colour with white colour in either sides for 2 cores and full black colour for 3 & 4 cores.. Special colours can also be provided on request.

MARKING

The cables are marked “RAJDHANI CABLES-FR (Size)1100V IS:694”

JELLY FLOODED COAXIAL CABLES

Range Rg-6, Rg-11 & Rg-59

Application These cables are used for transmission of video and audio signals and are used in DTH/CATV industry. With the number of CATV channels increasing by the day, these cable are ideal for multi channel applications.

Conductor A coaxial cable has a solid copper or copper-clad-steel center conductor surrounded by a non conducive di-electric insulating material.

Insulation The di-electric is surrounded by foil shield/s and /or copper/alloy braid/s which form the outer conductor and also shield against electromagnetic interference [EMI]. The outer conductor / shield is encased in a PVC jacket.

Screen Aluminum Mylar tape is provided over the insulated conductor to shield the conductor and ensure disturbance-free transmission of signals.

Braiding The braiding provided is >60% coverage of ATC (Annealed tinned copper) /Aluminium braiding.

TELEPHONE CABLES

TELEPHONE CABLES

Mode of pure electrolytic grade bright annealed bare copper as per IS:8130 in 0.4 & 0.5, mm. The insulated cores are twisted to form pairs and bunched to minimize cross talk. The cores are helically wrapped. Non hygroscopic and non wicking polyester tape or tape form laid up cables. The laid up cables are further jacketed with grey colour and high oxygen index fire retardant PVC used in Telephone and buildings, office, factories, hotel, hospitals and residential complexes.

- Bright-annealed 99.99% pure bare copper
- Conductors, these cables have low conductor resistance
- High speed transmission
- Zero noise level
- Low attenuation
- Low cross talk
- Suitable for indoor telephone wiring, switchboards and intercoms

CCTV CABLES

CLOSED CIRCUIT TELEVISION CABLES

Surveillance is a primary function for safety and security of school, clubs, prisons and businesses. The selection of cameras and other electronic equipment is a primary concern, but the link between the electronics should be taken with extreme caution. UNITECH provides CCTV coaxial cables from short run application to the most critical long-distance application.

- Bright annealed bare flexible type copper conductor available in 3+1 & 4+1
- Coaxial Cable consists of solid annealed bare copper conductor
- with Aluminium
- Carries the perfect signal from the camera to your screen
- Low loss characteristics reduced attenuation of the video signal

SPECIALITY CABLES

We at **Rajdhani Cables** strongly believe that for India to grow, our Industries will have to grow. With advanced Machineries in place we need special cables to support the growth. Therefore we have a line of specialised cable as follows.

- Fiberglass Cables upto 150 sq.mm.
- Solar DC cables
- Networking Data Cables.
- Thermocouple & Compensating Cables.
- Thermocouple RTD Cables.
- Instrumentation Screen Cables
- Screened Armoured Cables.
- Elevator & Ribbon Cables.

SPEAKER CABLES

Range .50 sq.mm to 4 sq.mm

Application Speaker cables are used to link speakers with receivers or power amplifiers.

Conductor Thin strands of Electrolytic Copper are multi–drawn simultaneously for uniformity of Resistance, Dimension, and Flexibility. Speaker cables are made of Electrolytic Grade, bright annealed bare copper with 100% conductivity conforming to IS: 8130:2013.

Insulation The bunched copper conductors are insulated with specially formulated high grade PVC compound which gives very high insulation resistance value.

Marking The cables are marked “RAJDHANI CABLES- SPEAKER CABLES (Size)”

Colour Of Cables The cable is transparent in nature with Red colour lining on one of the parallel running cores. The red lining is done to differentiate both the cores. The differentiation makes installation easier for the consumer.

Features

- High flame retardancy hence high conductivity
- Extra flexible for easy wiring
- High oxygen & temperature index
- Good visibility during fire hazards making it easy to escape
- High dielectric strength to prevent electrical break down easily
- Saves energy

Flame Retardant (FR) PVC Insulated (Unsheathed) single core multi strand cable with electrolytic grade annealed copper conductor suitable up to 1100 Volts grade conforming to IS:694

Nominal Area of Conductor 1 Sq.mm	Number/ Nom. dia* of Wire mm	Nominal Thickness of Insulation mm	Approx. Overall Diameter mm	Current Carrying Capacity 2 Cables, Single Phase @		Max DC Conductor Resistance At 20°C Ohms/km
				In Conduit Amps	Unenclosed Amps	
0.5	16/0.2	0.6	2.2	04	05	39.00
0.75	24/0.2	0.6	2.5	07	08	26.00
1.0	14/0.3	0.6	2.8	11	12	19.50
1.5	30/0.25	0.7	3.1	13	16	13.30
2.5	50/0.25	0.8	3.8	18	22	7.98
4.0	56/0.3	0.8	4.4	24	29	4.95
6.0	84/0.3	0.8	5.0	31	37	3.30
10.0	80/0.4	1.0	6.5	NA	46	1.91
16.0	126/0.4	1.0	7.4	NA	62	1.21
*As per conductor class 5 of IS: 8130						
25.0	196/0.4	1.2	9.3	NA	80	0.78
35.0	276/0.4	1.2	10.5	NA	102	0.554
50.0	396/0.4	1.4	12.5	NA	138	0.386
70.0	360/0.5	1.4	14.7	NA	214	0.272
95.0	475/0.5	1.6	16.7	NA	260	0.206
120.0	608/0.5	1.6	18.6	NA	305	0.161
150.0	750/0.5	1.8	20.9	NA	355	0.129
185.0	925/0.5	2.0	22.9	NA	415	0.106
240.0	1221/0.5	2.2	26.2	NA	425	0.0801
300.0	1527/0.5	2.4	29.2	NA	490	0.0641
400.0	2036/0.5	2.6	33.2	NA	590	0.0486
500.0	2540/0.5	2.8	37.3	NA	720	0.0384
630.0	3200/0.5	2.8	41.2	NA	900	0.0287

Sub sequential meter marking on cable for sizes above 50 sq.mm

Additional FR Properties

Test	Specification	Special Values
Critical Oxygen Index	IS 10810	Minimum 29%
Temperature Index	IS 10810	Minimum 250 °C

PVC Insulated & PVC Sheathed Multi-core cable with electrolytic grade annealed copper conductor suitable up to 1100 Volts grade conforming to IS:694

Nominal Area of Conductor Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				2 Core	3 Core	4 Core	2 Core	3 Core	4 Core		
0.50	16/0.2	0.60	2.20	0.9	0.9	0.9	6.2	6.5	7.0	4	39.00
0.75	24/0.2	0.60	2.45	0.9	0.9	0.9	6.7	7.2	7.8	7	26.00
1.00	32/0.2	0.60	2.45	0.9	0.9	0.9	7.0	7.4	8.1	12	19.5
1.50	30/0.25	0.60	2.75	0.9	0.9	0.9	7.6	8.0	9.2	15	13.3
2.50	50/0.25	0.70	3.50	1.0	1.0	1.0	9.1	9.6	10.7	20	7.98
4.00	56/0.3	0.80	4.10	1.0	1.1	1.1	10.5	11.4	12.4	27	4.95
6.00	84/0.3	0.80	4.80	1.1	1.1	1.2	12.3	13.3	14.7	35	3.30
10.00	80/0.4	1.00	6.30	1.2	1.2	1.3	15.7	16.9	18.6	40	1.91
16.00	126/0.4	1.00	7.30	1.3	1.3	1.4	18.0	19.10	21.2	62	1.21
25.00	196/0.4	1.20	9.30	1.4	1.5	1.6	23.0	23.5	26.1	80	0.78
35.00	276/0.4	1.20	10.50	1.5	1.6	1.7	25.5	26.3	29.2	102	0.554
50.00	396/0.4	1.40	12.40	1.6	1.7	1.8	29.0	31.8	34.0	138	0.386
70.00	360/0.5	1.40	14.70	1.6	1.7	1.8	29.0	31.8	34.0	214	0.272
95.00	475/0.5	1.60	16.20	2.4	2.4	2.4	37.2	39.8	44.0	260	0.206
120.00	608/0.5	1.60	18.20	2.5	2.5	2.5	41.5	44.3	49.4	305	0.161
150.00	750/0.5	1.80	20.20	2.6	2.6	2.6	45.6	48.8	54.2	355	0.129
185.00	925/0.5	2.00	22.40	2.8	2.8	2.8	50.4	54.0	59.8	415	0.106
240.00	1221/0.5	2.20	25.50	3.0	3.0	NA	57.0	61.1	NA	425	0.0801

Colours of Core & Sheath

Type	Colours of Core	Colours of Sheath
2 Core Sheathed	Red & Black	Black, White & Grey
3 Core Sheathed	Red, Black & Green for earth	Black, White & Grey
4 Core Sheathed	Red, Yellow, Blue & Green for earth	Black, White & Grey

* FR / FR-LSH multi-core cables can be supplied on request at extra cost.
* Each core of the wire is in different colour for identification.

PVC Insulated & PVC Sheathed Multi-core Cable with electrolytic grade annealed copper conductor suitable up to 1100 Volt grade generally conforming to IS:694

Nominal Area of Conductor Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				6 Core	7 Core	8 Core	6 Core	7 Core	8 Core		
0.50	16/0.2	0.6	2.20	0.90	0.90	1.00	8.50	8.50	9.30	4	39.00
0.75	24/0.2	0.6	2.45	1.00	1.00	1.00	9.50	9.50	10.40	7	26.00
1.00	32/0.2	0.6	2.45	1.00	1.00	1.00	9.80	9.80	10.70	12	19.5
1.50	30/0.25	0.6	2.75	1.00	1.00	1.10	10.70	10.70	11.90	15	13.3
2.50	50/0.25	0.7	3.50	1.00	1.10	1.20	12.70	12.70	14.10	20	7.98
4.00	56/0.3	0.8	4.10	1.20	1.20	1.30	15.30	15.30	16.90	27	4.95

Nominal Area of Conductor Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				10 Core	12 Core	14 Core	10 Core	12 Core	14 Core		
0.50	16/0.2	0.6	2.20	1.00	1.00	1.10	10.80	11.20	12.00	4	39.00
0.75	24/0.2	0.6	2.45	1.10	1.10	1.10	12.20	12.60	13.30	7	26.00
1.00	32/0.2	0.6	2.45	1.10	1.10	1.10	12.60	13.00	13.70	12	19.5
1.50	30/0.25	0.6	2.75	1.10	1.10	1.20	13.80	14.30	15.20	15	13.3
2.50	50/0.25	0.7	3.50	1.30	1.30	1.30	16.60	17.20	18.10	20	7.98
4.00	56/0.3	0.8	4.10	1.40	1.40	1.40	20.00	20.70	21.80	27	4.95

Nominal Area of Conductor Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20° C Ohm/km
				16 Core	19 Core	24 Core	16 Core	19 Core	24 Core		
0.50	16/0.2	0.6	2.20	1.10	1.10	1.20	12.60	13.20	15.60	4	39.00
0.75	24/0.2	0.6	2.45	1.20	1.20	1.30	14.20	14.90	17.60	7	26.00
1.00	32/0.2	0.6	2.45	1.20	1.30	1.30	14.60	15.60	18.20	12	19.5
1.5	30/0.25	0.6	2.75	1.20	1.30	1.40	16.00	17.10	20.20	15	13.3
2.5	50/0.25	0.7	3.50	1.40	1.40	1.40	19.30	20.30	23.80	20	7.98
4.0	56/0.3	0.8	4.10	1.50	1.50	1.50	23.20	24.50	28.50	27	4.95

INDUSTRIES WE SERVE

CCTV INSTALLERS

ELEVATOR CABLE

FIRE ALARM

SOLAR COMPANIES

AUTOMOBILE INDUSTRY

MACHINE TOOLS MANUFACTURER

ELECTRICITY BOARDS

PORTS, AIRPORTS

VARIOUS GOVERNMENT SECTORS

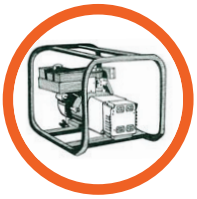
INDUSTRIAL PROJECTS

SUBMERSIBLE PUMPS

CONSTRUCTION COMPANIES

WAREHOUSING

AC INSTALLERS



GENERATOR MANUFACTURERS

INTERIOR DECORATOR

RAILWAY

PANEL BUILDERS






ADDRESS

WORKS:
Village: Manpura, Baddi: Nalagarh Road, Tehsil Baddi, District: Solan Himachal Pradesh 174101

OFFICE:
33B Ezra Street, Ground Floor, Kolkata 70001
32 Ezra Street, Ground Floor, Kolkata 70001
54 Ezra Street, 2nd Floor, Kolkata 70001

CONTACT: (033) 2235-1575, (033) 7134-1201
+91 9748708201

EMAIL: info@rajdhanicables.in

WEBSITE: www.rajdhanicables.in

SCAN ME