K PLATINUM
WIRES AND CABLES

TECHNICAL DATA

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PLATINUM
WIRES AND CABLES

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AN ISO 9001 :2008
COMPANY

IS : 694
ISI

Quality You Can Trust

About us

R.K. ELECTRICAL INDUSTRIES (INDIA): A unit of SLS Group of companies has launched a high end product with a brand nam PLATINUM wires & cables. The product is manufactured as a class in its segment keeping in view the complete safety norms require under BIS and International standards. The management and the technical staff have an experience of more than 50 years i manufacturing of wire & cables of repute.

AN ISO- 9001-2008 CERTIFIED COMPANY. BIS CERTIFICATION AS PER IS - 694 :2010 WITH LATEST AMENDMENT

The Company has launched a variety of products to meet the requirement of todays National & International market involving variou safety norms.

1. **FLAME RETARDANT (FR) WIRES & CABLES.** ,
2. **FLAME RETARDENT LOW SMOKE & HALOGEN (FR-LSH) WIRES & CABLES.**
3. **HEAT RESISTANT & FLAME RETARDENT (HR-FR) WIRES & CABLES.**
4. **ZERO HALOGEN LOW SMOKE (ZHLS-FR) WIRES & CABLES.**

PLATINUM (FR) - FLAME RESISTANT WIRES & CABLES: The product is insulated with Fire Retardant PVC compound. Th formulation of the FR compound is in house to control the quality of the PVC compound. The FR grade PVC used in this product has hig oxygen & Temperature index due to these properties spread of fire even on very high temperature is restricted. The compound has bee formulated to offer high insulation resistance value & dielectric strength to avoid current leakage which can be detrimental to th installations and at the same time threat to the human life. The current leakage level has been controlled well below the safety norms i.e. i 0.75 ma.

PLATINUM (FR-LSH) - FLAME RETARDENT LOW SMOKE & HALOGEN: The product manufactured under this category is with advance properties in the formulation of PVC compound. the Compound has an enhanced property to reduce the toxic smoke generation in case c fire to avoid suffocation and visibility hazards caused in case of ordinary PVC compound. This product has shown very good results i case of fire in crowded places like hospitals, Malls, Office complex, schools, Cinema halls and other highly crowed places. The measure Oxygen index in PLATINUM product is higher-29% against 25% in case of normal PVC and the Maximum Smoke Density rating valu is 60%.

PLATINUM (HR-FR) - HEAT RESISTANT- FLAME RETARDANT: This product is specially designed for Industrial purposes where th temperature remains high under normal circumstances due to various machinery or furnaces. This compound is designed to bear a temperature up to 105°C as compared to 70°C in case of normal PVC compound.

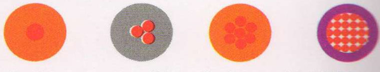
PLATINUM (ZHLS) - ZERO HALOGEN LOW SMOKE -FR CABLES: This is very advanced product a special Polymer with zero haloge emission, low smoke with flame retardant properties and has made its place in the new upcoming projects such as Airports, Hospita Malls, High rise buildings, cinema Halls, etc. It has an excellent light transmission(Visibility) index of > 80. the release of Halogen ga during burning is <1%. This product has an excellent flame retardancy and better temperature index of 280°C.

PVC INSULATED SINGLE / MULTICORE WIRES & CABLES

There is a consistent effort to maintain the quality of our products at **R.K. Electrical Industries(India)** & is fully geared to maintain it present position by updating the technology constantly and keeping abreast of the development world wide.

Every product is being manufactured as per the BIS standards or as per the specification of the customer.

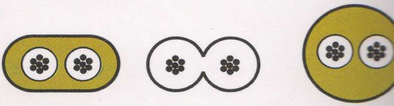
CONSTRUCTION



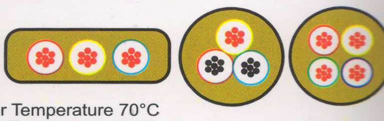
Solid Stranded Multi Stran

Reference Specification : IS :694 LATEST AMENDMENTS
Voltage Grade : 1100 Volts
Conductor : Aluminium : E.C. Grade Aluminium as per flexibility class 1 & 2 of IS : 8130 latest amendments
Copper ` Electrolytic Grade Bare Annealed Copper as per flexibility class 1, 2 & 5 of IS : 8130- latest amendments
Insulation : PVC Type A of Is : 5831-1984 for Conductor Temperature 70°C
PVC Type C of IS : 5831-1984 for Conductor Temperature 85°C
PVC Type D of IS : 5831-1984 for Conductor Temperature 70°C
Colour of Insulation : Cable for fixed installation
Single Core Wire & Cables : Red, Yellow, Blue, Grey, Greem, White or any colour as per customer's requirement

Two Core Cables : Red & Black
Three Core Cables : Red, Yellow & Blue
Four Core Cables : Red, Yellow, Blue & Black
Colour of insulation : Flexible Wires, Cables & Cords
Single Core Wires & Cables : Red, Yellow. Blue, Black, Grey, Green, White or any colour as per customer's requirement



Two Core Cables : Red & Black
Three Core Cables : Red, Black & Green
Four Core Cables : Red, Yellow, Blue & Green
Five Core Cables : Red, Yellow, Blue, Black & Green



Sheath : PVC Type ST-1 of IS : 5831-1984 for Conductor Temperature 70°C
PVC Type ST-2 of Is : 5831-1984 for Conductor Temperature 85°C
PVC Type ST-3 of IS : 5831-1984 for Conductor Temperature 70°C

Colour of sheath
Non-Weather proof Cables : Black or any colour as per Customer's requirement
Weatherproof Cables : Black only.

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HR-PVC FR-LSH PVC

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PLATINUM COPPER CONDUCTOR FR PVC INSULATED UNSHEATHED WIRES & CABLES FOR HOUSE & INDUSTRIAL WIRING CONFORMING TO IS : 694 : 2010 WITH LATEST AMENDMENTS (STANDARD PACKING OF 90 MTRS.

Nominal Area of Conductor	No / Diameter of Wires in Conductor	Nominal Thickness of Insulation	Overall Diameter	Maximum D.C. Resistance at 20°C	Current Rating
mm²	mm	mm	mm	Ohm/Km	Amps
0.75	24/0.20	0.60	2.50	26.0	7
1.0	32/.20	0.70	2.80	19.50	11
1.5	30/.25	0.70	3.15	13.30	13
2.5	50/.25	0.80	3.60	7.98	18
4.0	56/.30	0.80	4.30	4.95	26
6.0	84/0.30	0.80	5.20	3.30	33
10.0	140/0.30 or 80/0.40	1.00	6.60	1.91	45
16.0	126/0.40	1.00	7.60	1.210	60
25.0	196/0.40	1.20	9.50	0.780	75
35.0	276/0.40	1.20	10.80	0.554	95
50.0	396/0.40	1.40	13.0	0.386	125

PLATINUM COPPER CONDUCTOR FR & FR-LSH COMPOUND PVC INSULATED UNSHEATHED FLEXIBLE WIRES & CORDS FOR PANEL & FLEXIBLE WIRING CONFORMING TO IS : 694 : 2010 WITH LATEST AMENDMENTS (STANDARD PACKING OF 100 MTRS.)

Nominal Area of Conductor	No / Diameter of Wires in Conductor	Nominal Thickness of Insulation	Maximum D.C.Resistance at 20°C	Current Rating	Overall Dimension		
					Single Core	Twin Parallel	Twin Twisted
mm²	mm	mm	Ohm/Km	Amps	mm	mm	mm
0.50	16/0.20	0.60	39.00	4	2.25	4.50 x 2.25	4.50
0.75	24/0.20	0.60	26.00	7	2.45	4.90 x 2.45	4.90
1.00	32/0.20	0.60	19.50	11	2.65	5.30 x 2.65	5.30
1.50	48/0.20 or 30/0.25	0.60	13.30	14	2.90	5.80 x 2.90	5.80
2.50	80/0.20 or 50/0.25	0.70	7.98	19	3.55	7.50 x 3.55	7.20
4.00	56/0.30 & 128/0.20	0.80	4.95	26	4.30	8.60 x 4.30	8.60
6.00	84/0.30	0.80	3.30	33	4.90		
10.0	140/0.30 or 80/0.40	1.00	1.90	45	6.30		
16.0	126/0.40	1.00	1.21	60	7.40		
25.0	196/0.40	1.20	0.780	75	9.60		
35.0	276/0.40	1.20	0.554	95	10.90		
50.0	396/0.40	1.40	0.386	125	13.00		
70.0	360/0.50	1.40	0.272	170	14.50		
95.0	485/0.50	1.60	0.206	210	17.00		
120.0	610/0.50	1.60	0.161	235	19.50		
150.0	755/0.50	1.80	0.129	295	22.50		
185.0	925/0.50	2.00	0.106	340	24.00		
240.0	1221/0.50	2.20	0.0801	390	27.00		
300.0	1527/0.50	2.40	0.0641	455	31.00		

PLATINUM COPPER CONDUCTOR FR PVC INSULATED UNSHEATHED WIRES & CABLES FOR HOUSE & INDUSTRIAL WIRING CONFORMING TO IS : 694 : 2010 WITH LATEST AMENDMENTS(STANDARD PACKING OF 100 MTRS.)

Nominal Area of Conductor	Solid Conductor (Single Strand)			3 Strand			7 /19 Strand			Maximum D.C. Resistance at 20°C	Current Rating
	No/Dia of Wire	Thickness of Insulation	Overall Diameter	No/Dia of Wire	Thickness of Insulation	Overall Diameter	No/Dia of Wire	Thickness of Insulation	Overall Diameter		
mm²	mm	mm	mm	mm	mm	mm	mm	mm	mm	Ohm/Km	Amps
1.0	1/1.12	0.70	2.65	3/0.67	0.70	2.85	7/0.43	0.70	2.75	18.10	11
1.5	1/1.38	0.70	2.90	3/0.81	0.70	3.15	7/0.53	0.70	3.05	12.10	13
2.5	1/1.78	0.80	3.50	3/1.05	0.80	3.85	7/0.67	0.80	3.65	7.41	18
4.0	1/2.25	0.80	3.90				7/0.85	0.80	4.30	4.61	24
6.0	1/2.76	0.80	4.40				7/1.05	0.80	4.80	3.08	31
10.0							7/1.35	1.00	6.10	1.83	42
16.0							7/1.70	1.00	7.15	1.15	57
25.0							7/2.14	1.20	8.90	0.727	71
35.0							7/2.50	1.20	10.0	0.524	91
50.0							19/1.78	1.40	11.85	0.387	120

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KPLATINUM PVC INSULATED SINGLE / MULTICORE PVC SHEATHED CABLES CONFORMING TO IS : 694 : 2010 WITH LATEST AMENDMENTS (STANDARD PACKING OF 100 MTRS.

Cond. Area	Thickness of Insulation (Nominal)	Core Dia	Nominal Thickness of Outer Sheath				Overall Diamensions					
			Single Core	Two Core	Three Core	Four Core	Single Core	Two Core Round	Two Core Flat	Three Core Round	Three Core Flat	Four Core Round
mm²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1.00	0.60	2.45	0.80	0.90	0.90	0.90	4.10	6.80	6.80 x 4.35	7.20	9.20 x 4.35	7.80
1.50	0.60	2.75	0.80	0.90	0.90	0.90	4.40	7.40	7.40 x 4.65	7.80	10.1 x 4.65	8.50
1.50	0.60	2.95	0.80	0.90	0.90	0.90	4.60	7.80	7.80 x 4.85	8.25	10.70 x 4.85	9.00
2.50	0.70	3.30	0.80	1.00	1.00	1.00	4.95	8.70	8.70 x 5.40	9.2	11.95 x 5.40	10.10
2.50	0.70	3.55	0.80	1.00	1.00	1.00	5.20	9.2	9.20 x 5.65	9.75	12.70 x 5.65	10.70
4.00	0.80	4.00	0.90	1.00	1.10	1.10	5.85	10.0	10.10 x 6.10	10.90	14.25 x 6.10	11.95
4.00	0.80	4.30	0.90	1.00	1.10	1.10	6.15	10.7	10.70 x 6.40	11.55	15.15 x 6.40	12.70
6.00	0.80	4.5	0.90	1.00	1.10	1.20	6.35	11.30	11.30 x 6.80	12.00	15.75 x 6.80	13.35
6.00	0.80	4.9	0.90	1.00	1.10	1.20	6.75	12.10	12.10 x 7.2	12.90	16.95 x 7.20	14.35
10.0	1.00	5.70	0.90	1.10	1.20	1.30	7.55	13.90	13.90 x 8.2	14.80	19.55 x 8.2	16.50
10.0	1.00	6.20	0.90	1.20	1.20	1.30	8.05	14.90	14.90 x 8.70	15.90	21.05 x 8.70	17.70
16.0	1.00	7.30	1.00	1.30	1.30	1.40	9.30	17.20	17.20 x 10.00	18.35	24.40 x 10.00	20.40
25.0	1.20	9.00	1.10	1.40	1.50	1.60	11.20	20.80	20.80 x 11.90	22.40	29.90 x 12.10	25.00
35.0	1.20	10.10	1.10	1.50	1.60	1.70	12.30	23.20	23.30 x 13.20	25.00	33.40 x 13.35	27.80
50.0	1.40	11.90	1.20	1.60	1.70	1.80	14.30	27.00	27.00 x 15.20	29.10	39.00 x 15.35	32.35

KPLATINUM FLEXIBLE PVC INSULATED SINGLE / MULTICORE PVC SHEATHED CORDS CONFORMING TO IS : 694 : 2010 WITH LATEST AMENDMENTS (STANDARD PACKING OF 100 MTRS.

Cond. Area	Thickness of Insulation	Core Dia	Nominal Thickness of Outer Sheath					Overall Dimension						
			Single Core	Two Core	Three Core	Four Core	Five Core	Single Core	Two Core Round	Two Core Flat	Three Core Round	Three Core Flat	Four Core	Five Core
mm²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0.50	0.60	2.25	0.90	0.90	0.90	0.90	0.90	4.10	6.40	6.40 x 4.10	6.75	8.60 x 4.10	7.30	7.90
0.75	0.60	2.45	0.90	0.90	0.90	0.90	0.90	4.30	6.80	6.80 x 4.30	7.20	9.20 x 4.30	7.80	8.50
1.00	0.60	2.65	0.90	0.90	0.90	0.90	0.90	4.50	7.20	7.20 x 4.50	7.60	9.80 x 4.50	8.30	9.20
1.50	0.60	2.95	0.90	0.90	0.90	1.00	0.00	4.80	7.80	7.80 x 4.80	8.25	10.70 x 4.80	9.20	10.00
2.50	0.70	3.65	1.00	1.00	1.00	1.00	1.00	5.70	9.40	9.40 x 5.70	10.00	13.00 x 5.70	10.90	11.90
4.00	0.80	4.35	1.00	1.00	1.00	1.00	1.10	6.40	10.80	10.80 x 6.40	11.50	15.50 x 6.40	12.60	14.00

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- Ansal Group of Companies
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- AWHO
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- Bharat Heavy Electrical Limited
- Bharat Petroleum Corporation Ltd.
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- Century Pulp & Paper Limited
- CIDCO
- CPWD
- Crompton Greaves Limited
- D.L.F. Industries Limited
- D.C.M. Benneton
- DESU
- Hindustan Futuristic Comm. Ltd.
- HSEB
- IAAI
- Larson & Tubro Limited
- Life Insurance Corporation of (I) Ltd.
- Maruti Udyog Limited
- MSEB
- MTNL
- MPEB
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