

## Profile

KEI has been at the forefront of India's wire and cable Industry for more than 5 decades. We manufacture a range of specialized cables and are important players in the domestic and retail segment. Our unblemished track record has earned us the patronage of leading Industrial houses, project consultants and architects. In order to provide reliable and expedient services to our customers, we have created manufacturing facilities at Silvassa, Chopanki, Bhiwadi and Pathredi. Today, KEI is a one-stop-shop when it comes to meeting cabling requirements for the domestic, power and Industrial sectors.

# KEI

## Wires & Cables



Multi-strand flexible house wires with flame retardant properties. Specially formulated insulation, with a high oxygen and temperature index, enables the cable to withstand overloads preventing electric mishaps.

Test	Specification	Specified Values
Critical Oxygen Index	ASTM-D 2863	Minimum 29
Temperature Index	ASTM-D 2863	Minimum 250°C



Ideal for wiring solutions in multi-storied buildings, hotels, hospitals, commercial establishments and residential complexes. It is shielded by a specially formulated flame retardant PVC compound. During fire, ordinary PVC emits black smoke and toxic fumes which are acidic in nature. This impairs visibility and hampers rescue operations. Conflame insulation retards spread of fire and emits minimum smoke and toxic gases, thereby reducing the risk of injury.

Test	Specification	Specified Values
Critical Oxygen Index	ASTM-D 2863	Minimum 29
Temperature Index	ASTM-D 2863	Minimum 250°C
Acid Gas Generation	IEC 60754-1	Maximum 20%
Smoke Density Rating	ASTM-D 2843	Maximum 60%



100% PVC free and eco friendly. In case of a fire situation, Banfire does not emit toxic or poisonous fumes, which enables safe evacuation. These wires are best suited for wiring in hospitals, hotels, business establishments and high rise buildings where fire can be dangerous.

Test	Specification	Specified Values
Critical Oxygen Index	ASTM-D 2863	Minimum 29
Temperature Index	ASTM-D 2863	Minimum 250°C
Acid Gas Generation	IEC 60754-1	Maximum 0.5%
Smoke Density Rating	ASTM-D 2843	Maximum 20%

## SIZE DIMENSIONS AND RATINGS

Nominal Cross Sectional Area of Conductor	Number/Nominal Dia of wires*[Nom.]	Thickness of insulation [Nom.]	Overall Diameter Max.	Current Rating		D.C Resistance [Max.] at 20°C
				Casing	Concealed	
Sq.mm	Number/mm	mm	mm	amps	amps	Ohm/km
0.75	24/0.2	0.6	2.8	7.50	7.00	26.0
1.00	32/0.2	0.6	3.0	12.00	11.00	19.5
1.50	30/0.25	0.6	3.4	16.00	14.00	13.3
2.50	50/0.25	0.7	4.1	22.00	19.00	7.98
4.00	56/0.3	0.8	4.8	29.00	26.00	4.95
6.00	84/0.3	0.8	5.3	37.00	31.00	3.30

\*The number & diameter of conductor strands are for reference only and governed by conductor resistance. The above data is indicative only, and may be revised without prior information. KEI will not be responsible for any damages arising out of incorrect application of its product.



# KEI

## Wires & Cables

**Uncompromising quality. Incredible range. Wires and Cables Specialists.**

PRODUCT RANGE	VOLTAGE GRADE	SIZE	REFERRED STANDARDS
<b>EHV Cables</b>	66/110/132/220/400kV	Upto 2500 sq mm Copper / 3000 sq mm Aluminum	IEC 60840/ IS 7098 Part 3/ IEC 62067
<b>MV/HV Cables</b>	3.8/6.6 kV 6.35/11kV(E) 11/11kV(UE) 12.7/22kV(E) 19/33kV(E)	25 sq mm to 1000 sq mm for 1 core & 400 sq mm for 3 core 25 sq mm to 1000 sq mm for 1 core & 400 sq mm for 3 core 25 sq mm to 1000 sq mm for 1 core & 400 sq mm for 3 core 35 sq mm to 1000 sq mm for 1 core & 400 sq mm for 3 core 50 sq mm to 1000 sq mm for 1 core & 400 sq mm for 3 core	IS:1554-(P-2), 1988, IS:7098(P-2), 1985, IEC:60502 - 2, BS:6622, & RELEVANT NFC
<b>LV Power Cables</b>	Upto 3.3kV	1C, 2C, 3C, 4C, - 4 sq mm to 630 sq mm 3.5C - 25 sq mm and as per client's requirement	IS:1554-(P-1) & (P-2), IS:7098(P-1) & (P-2) IEC:60502 - 1 & 2, BS:5467, BS:6724, BS:6346 BS:7889, VDE-0207, VDE-0276
<b>LV Control Cables</b>	Upto 1100 Volts	1.5 sq mm – 2C to 61 Cores 2.5 sq mm – 2C to 61 Cores and as per client's requirement	IS:1554-(P-1), IS:7098(P-1), IEC:60502 – 1 BS:5467, BS:6724, BS:6346
<b>Instrumentation/ Signal Cables</b>	300 / 500 / 1100 Volts	1P to 100P- up to 6 sq mm 1T to 100T- up to 6 sq mm and as per client's requirement	EIL-6-52-46. Rev-05, PAS: 5308 Part 1 & Part 2, BSC 143-0.75 (24/0.2 mm) OAS, IEC 60092-375, 376, BS EN 50288, VDE 0815, VG 95218, NEK 606 BSEN 50288-7 and as per customer's specifications.
<b>Thermocouple Extension/ Compensating Cables</b>	300 / 500 / 1100 Volts	12 AWG/ 16 AWG/ 20 AWG – up to 100 pairs and as per client's requirement	EIL SPEC:6-52-46, ANSI:MC-96.1, ENI-163.00, IS:8784, BS:7655, IEC 60584
<b>Rubber Cables (Elastomeric Cables)</b>	1.1kV to 11kV	1C, 2C, 3C, 4C, - 0.5 sq mm to 630 sq mm 3.5C - 25 sq mm to 400 sq mm and as per client's requirement	IS:9968(P-1) & (P-2), IS:14494, IEC-60502-1 & 2, IEC:60092-350, VDE:250, BS:6007, BS:7919, BS:6195, NCB:118, NES & DEFSTAN, RDSO Specification, NEK-606, BS:6883
<b>Flexible &amp; Building Wires</b>	300 / 600 / 1100 Volts	House Wire - 0.5 sq mm to 6 sq mm Multi Core – 2C to 24C – 0.5 sq mm to 400 sq mm Single Core Flexible – 0.5 sq mm to 1000 sq mm Building Cables – 0.5 sq mm to 6 sq mm and as per client's requirement	IS:694, BS-6004, BSEN50525 BS:7655, BS:6500, BS:7211, IEC-60227-1, 2, 5 CSA-22.2 No.38-05
<b>Fire Survival / LSZH Cables</b>	Upto 1.1 kV	Power Cables: 1 core to 5 core – upto 1000 sq mm Control Cables: up to 61 cores – 0.5 sq mm to 6.0 sq mm Signal Cables: up to 100 pairs – from 0.5 sq mm to 6.0 sq mm Signal Cables: up to 100 triads – from 0.5 sq mm to 6.0 sq mm	IS:1554-(P-1) IS:9968, BS:5467, VDE-0207, BS:6346, IEC:331, BS:5746, IEC:60502-1, BS:7846, BSEN-60811 & II, IEC:60092, NEK-606, BS:6883
<b>Solar Cables</b>	1.8 kV DC	1 sq mm - 240 sq mm	TUV 2PFg 1169/08.07, BSEN50618
<b>Aerial Bunched Cables</b>	1.1kV to 22kV	16 sq mm to 400 sq mm	IS:14255, BS:7870-5, BS:625, HD:626, VDE:00276, PART 626, IEC:60502-1&2, NFC:33-209, BS:6485
<b>Bare Conductors for Overhead Power Transmission &amp; Distribution Lines</b>	11kV to 800kV	25 sq mm to 1600 sq mm & as per client's requirement	IS 398, BSEN 50182, ASTM B232, EC61089
<b>Other Products</b> Submersible Cables/ Winding Wires Welding Cables Ship Wiring Cables Mining Cables Cables For Offshore Installation Cables For Defense Automatic Cables Railway Signaling Cables			BS:6004 EIL-6-51-52, REV-01 & 02 IS:9857 - 1981 IEC: 60350,351,3352,353,354 IS:14494 As per client's requirement As per client's requirement As per client's requirement As per client's requirement

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