

LV CABLES

KEI
Wires & Cables

CONDUCTOR

Copper(Plain/Tinned), Aluminium

INSULATION

XLPE/PVC/HRPVC/LSZH

INNER/OUTER SHEATH

PVC/HRPVC/HDPE/FR/FRLS/LSZH

ARMOUR

GS Wire/GS Strip/Al Wire/Al Strip/GS Tape/

Al Tape/ATC Braid/SS Braid/GS Braiding

VOLTAGE GRADE Up to 3.3kV

APPLICABLE STANDARDS

IEC-60502-1, BS 6346, BS 5467, BS 6622,

IS 1554-1, IS-7098-1/2

PACKING

Wooden/Steel Drums

PRODUCT RANGE

Conductor Size Up to 1000 sq.mm., Power

Cables Up to 5 cores

Control Cables - Up to 61 Cores,

from 0.5 sq.mm. to 6.0 sq.mm.

* Customized cable design as per project/customer requirement available.

* Cable accessories can be offered (if required).



CONTROL CABLES



PVC INSULATED, ARMOURED CONTROL CABLES AS PER IS: 1554 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	STRIP ARMOURED CABLE				WIRE ARMOURED CABLE				Standard Delivery/ Drum Length	Current Rating	
			Nominal size of strip	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Nominal diameter of wire	Min Thickness of PVC Outer sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable		Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm x mm	mm	mm	Kg/Km	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.0	375	1000	25	20/22
3C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	14.5	400	1000	21	17/18
4C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	15.4	450	1000	21	17/18
5C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	16.3	500	1000	21	17/18
6C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	17.3	550	1000	15	13
7C x 1.5	0.8	0.3	---	---	---	---	1.4	1.24	17.3	575	1000	14	13
10C x 1.5	0.8	0.3	---	---	---	---	1.4	1.4	20.0	750	1000	13	11
12C x 1.5	0.8	0.3	4 x 0.8	1.24	19.4	675	1.6	1.4	21.4	900	1000	12	10
14C x 1.5	0.8	0.3	4 x 0.8	1.4	21.2	775	1.6	1.4	22.8	975	1000	11	10
16C x 1.5	0.8	0.3	4 x 0.8	1.4	22.1	850	1.6	1.4	23.7	1050	1000	11	9
19C x 1.5	0.8	0.3	4 x 0.8	1.4	23.1	925	1.6	1.4	24.7	1150	1000	10	9
24C x 1.5	0.8	0.3	4 x 0.8	1.4	26.4	1150	1.6	1.4	28.0	1375	1000	9	8
27C x 1.5	0.8	0.3	4 x 0.8	1.4	26.9	1200	1.6	1.4	28.5	1450	1000	9	8
30C x 1.5	0.8	0.3	4 x 0.8	1.4	27.8	1300	1.6	1.4	29.4	1550	1000	9	7
37C x 1.5	0.8	0.3	4 x 0.8	1.4	29.7	1500	1.6	1.4	31.3	1750	1000	8	7
2C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.2	425	1000	33	26/28
3C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	15.8	500	1000	28	23/24
4C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	16.8	550	1000	28	23/24
5C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	17.9	625	1000	28	23/24
6C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	19.1	700	1000	21	18
7C x 2.5	0.9	0.3	---	---	---	---	1.4	1.24	19.1	725	1000	20	17
10C x 2.5	0.9	0.3	4 x 0.8	1.4	21.0	850	1.6	1.4	22.6	975	1000	18	15
12C x 2.5	0.9	0.3	4 x 0.8	1.4	22.2	900	1.6	1.4	23.8	1100	1000	17	14
14C x 2.5	0.9	0.3	4 x 0.8	1.4	23.8	1000	1.6	1.4	25.4	1225	1000	16	13
16C x 2.5	0.9	0.3	4 x 0.8	1.4	24.9	1100	1.6	1.4	26.5	1325	1000	15	13
19C x 2.5	0.9	0.3	4 x 0.8	1.4	26.10	1250	1.6	1.4	27.7	1500	1000	14	12
24C x 2.5	0.9	0.3	4 x 0.8	1.4	30.0	1500	1.6	1.56	32.0	1800	1000	13	11
27C x 2.5	0.9	0.3	4 x 0.8	1.4	30.6	1625	1.6	1.56	32.6	1950	1000	12	10
30C x 2.5	0.9	0.3	4 x 0.8	1.56	32.0	1775	1.6	1.56	33.6	2050	1000	12	10
37C x 2.5	0.9	0.4	4 x 0.8	1.56	34.5	2050	2.0	1.56	36.9	2600	1000	11	9

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. General Purpose PVC-A/HR PVC-C Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR/General Purpose PVC ST-1 or 2 inner sheath
5. Armouring round Galvanized steel wires/strips
6. FR/FRLS/HR/General Purpose PVC ST-1 or 2 outer sheath

Max. Conductor D.C. Resistance at 20°C - Conductor Size :

1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned)
2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned)

* Dimensions specified are with stranded conductor

Approx Reactance at 50 Hz

1.5 sq.mm - 0.126 Ohm/Km, 2.5 sq.mm - 0.119 Ohm/Km

Approx Capacitance at 50 Hz

1.5 sq.mm - 0.14 uF/Km, 2.5 sq.mm - 0.15 uF/Km

CONTROL CABLES



PVC INSULATED, UNARMoured CONTROL CABLES AS PER IS: 1554 (P-1)

FOR WORKING VOLTAGES UP TO AND INCLUDING 1100 V

No of Cores & Cross sectional Area	Thickness of PVC Insulation (nom)	Min thickness of PVC Inner Sheath	Nom. Thickness of PVC Outer Sheath	Approx Overall diameter of Cable with ± 2 mm tolerance	Approx weight of cable	Standard Delivery/ Drum length	Current Rating	
							Buried Direct in the Ground @ 30°C	In Air/Duct @ 40°C
Sq.mm	mm	mm	mm	mm	Kg/Km	meters	Amps	Amps
2C x 1.5	0.8	0.3	1.8	12.2	150	1000	25	20/22
3C x 1.5	0.8	0.3	1.8	12.7	175	1000	21	17/18
4C x 1.5	0.8	0.3	1.8	13.6	200	1000	21	17/18
5C x 1.5	0.8	0.3	1.8	14.5	250	1000	21	17/18
6C x 1.5	0.8	0.3	1.8	15.5	275	1000	15	13
7C x 1.5	0.8	0.3	1.8	15.5	300	1000	14	13
10C x 1.5	0.8	0.3	1.8	17.8	400	1000	13	11
12C x 1.5	0.8	0.3	1.8	18.8	450	1000	12	10
14C x 1.5	0.8	0.3	1.8	20.2	500	1000	11	10
16C x 1.5	0.8	0.3	1.8	21.1	560	1000	11	9
19C x 1.5	0.8	0.3	2.0	22.5	660	1000	10	9
24C x 1.5	0.8	0.3	2.0	25.8	800	1000	9	8
27C x 1.5	0.8	0.3	2.0	26.3	875	1000	9	8
30C x 1.5	0.8	0.3	2.0	27.2	950	1000	9	7
37C x 1.5	0.8	0.3	2.0	29.1	1125	1000	8	7
2C x 2.5	0.9	0.3	1.8	13.4	200	1000	33	26/28
3C x 2.5	0.9	0.3	1.8	14.0	225	1000	28	23/24
4C x 2.5	0.9	0.3	1.8	15.0	275	1000	28	23/24
5C x 2.5	0.9	0.3	1.8	16.1	325	1000	28	23/24
6C x 2.5	0.9	0.3	1.8	17.3	375	1000	21	18
7C x 2.5	0.9	0.3	1.8	17.3	400	1000	20	17
10C x 2.5	0.9	0.3	1.8	20.0	550	1000	18	15
12C x 2.5	0.9	0.3	2.0	21.6	650	1000	17	14
14C x 2.5	0.9	0.3	2.0	23.2	725	1000	16	13
16C x 2.5	0.9	0.3	2.0	24.3	800	1000	15	13
19C x 2.5	0.9	0.3	2.0	25.5	900	1000	14	12
24C x 2.5	0.9	0.3	2.0	29.4	1125	1000	13	11
27C x 2.5	0.9	0.3	2.0	30.0	1225	1000	12	10
30C x 2.5	0.9	0.3	2.0	31.0	1350	1000	12	10
37C x 2.5	0.9	0.4	2.2	33.9	1600	1000	11	9

Construction

1. Solid/Stranded annealed copper conductor & Tinned/Bare
2. General Purpose PVC-A/HR PVC-C Insulation
3. Cores laid up (filled if needed)
4. FR/FRLS/HR/General Purpose PVC ST-1 or 2 inner sheath
5. FR/FRLS/HR/General Purpose PVC ST-1 or 2outer sheath

Max. Conductor D.C Resistance at 20°C - Conductor Size :

- 1.5 sq.mm - 12.1 Ohm/Km (bare), 12.2 Ohm/Km (tinned)
2.5 sq.mm - 7.41 Ohm/Km (bare), 7.56 Ohm/Km (tinned)

* Dimensions specified are with stranded conductor.

Approx Reactance at 50 Hz

- 1.5 sq.mm - 0.126 Ohm/Km, 2.5 sq.mm - 0.119 Ohm/Km

Approx Capacitance at 50 Hz

- 1.5 sq.mm - 0.14 uF/Km, 2.5 sq.mm - 0.15 uF/Km

HOUSE WIRES

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CMD'S MESSAGE



MR. ANIL GUPTA

Chairman & Managing Director
KEI Industries Limited

KEI Industries, an Indian MNC founded in 1968, is a global leader in wire and cable solutions having an extensive range of world-class products and services. With multiple robust & cutting edge manufacturing facilities and a vast network of more than 30,000 channel partners, KEI serves clients in 65+ countries, establishing itself as a one-stop-shop for comprehensive wire and cable solutions. The company achieved a turnover of INR 8000+ crore in the fiscal year 2023-24.

As the world faces the pressing challenges of global warming and climate change, KEI Industries is dedicated to leading the way towards a sustainable and a carbon-neutral future. Our

dedication involves using clean gas and solar energy, alongside advanced air and water treatment systems, to eliminate hazardous chemicals and ensure a safe, sustainable environment. Our diverse array of products also reflects our strong commitment towards building an eco-friendly efficient surrounding. With an ongoing focus on innovation, KEI is positioned to lead in sustainability while meeting the demands of global consumers through using cutting-edge technologies, driving progress and setting new standards for environmental responsibility.

STATE OF THE ART MANUFACTURING 5 UNITS



BHIWADI
RAJASTHAN



CHOPANKI
RAJASTHAN



PATHREDI
RAJASTHAN



RAKHOLI
DADRA AND NAGAR
HAVELI



CHINCHPADA
DADRA AND NAGAR
HAVELI

BUILDING THE NATION...! PRESTIGIOUS PROJECTS WIRED BY KEI



RAM MANDIR



**WORLD'S TALLEST
STATUE OF UNITY**



**WORLD'S
LARGEST NARENDRA
MODI STADIUM**



**PARLIAMENT OF
INDIA**



**KONKAN RAILWAY
PROJECT**



**INDIA'S LONGEST
BOGIBEEL BRIDGE**



BULLET TRAIN



**INDIAN INSTITUTE
OF TECHNOLOGY
BOMBAY**



**AIROLI-KATAI
NAKA TUNNEL**



**MUMBAI COASTAL
ROAD MEGA PROJECT**



MUMBAI MONORAIL



**MUMBAI NAGPUR
SAMRUDDHI HIGHWAY**

**HEAT RESISTANT -
FLAME RETARDANT -
LOW SMOKE & HALOGEN
LEAD FREE
20% HIGH CURRENT CAPACITY
85°C TEMP MAX OPERATING
RoHS COMPLIANT
REACH COMPLIANT**



CONDUCTOR: The conductors, drawn from bright electrolytic grade copper and annealed and bunched together.

INSULATION: The bunched conductors are insulated with specially formulated Heat Resistance Flame Retardant Low Smoke & Halogen Compound. During a fire situation, the FR-LSH compound restricts the spread of flame. The smoke emission is also minimal.

MARKING: The cables are printed with generic marking 'CONFLAME Green+'.

COLORS: Red, Yellow, Blue, Black, Green and Grey.

PACKING: 90 Meters (apprx.100 yards) pack in protective cartons.

conFlame[®] Green+

**Heat Resistant - Flame Retardant
Low Smoke & Halogen- Lead Free**

Test	Specification	Specified Values
Critical Oxygen Index	ASTM-D 2863	Minimum 31%
Temperature Index	ASTM-D 2863	Minimum 250 °C
Acid Gas Generation	IEC 60754-1	Maximum 20%
Smoke Density Rating	ASTM-D 2843	Maximum 60%

KEI's innovative offering Conflame Green+ is ideal for wiring solutions in multi-storied buildings, hotels, hospitals, commercial establishments and residential complexes. It is shielded by a specially formulated Heat Resistance flame retardant PVC compound. Conflame Green+ wire is made of sustainable material (RoHS & REACH compliant) and is lead-free, which makes it ECO-friendly. Even its packaging is made with recycled material, which is Bio-degradable. Conflame Green+ insulation retards spread of fire and emits minimum smoke and toxic gases, making it absolutely safe for both inside house and outside environment. So, give yourself the promise of security and supreme quality. Get KEI house wires and safeguard your home for life.

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
				Clipped Direct/ Cable Tray	Conduit/Trunking	
Sq.mm	Number/mm	mm	mm	amps	amps	Ohm/km
0.75	24/0.2	0.6	2.8	9	10	26.0
1.00	32/0.2	0.6	3.0	14	16	19.5
1.50	30/0.25	0.6	3.4	17	21	13.3
2.50	50/0.25	0.7	4.1	23	28	7.98
4.00	56/0.3	0.8	4.8	31	38	4.95
6.00	84/0.3	0.8	5.3	40	48	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.



Halogen Free-Flame Retardant

CONDUCTOR: The conductors, drawn from bright electrolytic grade copper and annealed and bunched together.

INSULATION: The bunched conductors are insulated with specially formulated grade of Halogen Free Flame Retardant (HFFR) compound is used. The insulation does not melt or drop in case of fire. The smoke emitted is transparent, non-toxic and minimal. The victims trapped in the fire do not suffocate and evacuation is convenient.

MARKING: The cables are printed with generic marking 'BANFIRE'.

COLORS: Red, Yellow, Blue, Black, Green and Grey.

PACKING: 90 Meters (apprx.100 yards) pack in protective cartons.

KEI Banfire is processed using a Halogen Free Flame Retardant compound (HFFR). The insulation is of superior quality, 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 determined. So, give yourself the promise of security and supreme quality. Get KEI house wires and safeguard your home for life.

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
				Clipped Direct/Cable Tray	Conduit/Trunking	
Sq.mm	Number/mm	mm	mm	amps	amps	Ohm/km
0.75	24/0.2	0.6	2.8	7	8	26.0
1.00	32/0.2	0.6	3.0	12	13	19.5
1.50	30/0.25	0.6	3.4	14	17	13.3
2.50	50/0.25	0.7	4.1	19	23	7.98
4.00	56/0.3	0.8	4.8	25	31	4.95
6.00	84/0.3	0.8	5.3	33	39	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.



conFlame® - FR-LSH

Flame Retardant Low Smoke & Halogen

CONDUCTOR: The conductors, drawn from bright electrolytic grade copper and annealed and bunched together.

INSULATION: The bunched conductors are insulated with specially formulated Flame Retardant Low Smoke Compound. During a fire situation, the FR-LSH compound restricts the spread of flame. The smoke emission is also minimal.

MARKING: The cables are printed with generic marking 'CONFLAME'.

COLORS: Red, Yellow, Blue, Black, Green and Grey.

PACKING: 90 Meters (apprx.100 yards) pack in protective cartons.

KEI's innovative offering Conflame is 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. So, give yourself the promise of security and supreme quality. Get KEI house wires and safeguard your home for life.

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.

HALOGEN FREE FLAME RETARDANT 70°C TEMP MAX OPERATING THERMOPLASTIC INSULATION RoHSCOMPLIANT REACH COMPLIANT

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%

FLAME RETARDANT LOW SMOKE & HALOGEN PVC INSULATED SINGLE CORE UNSHEATHED COPPER CABLES (UP TO 1100 VOLTS AC)

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%



**FLAME RETARDANT
LEAD FREE
RoHSCOMPLIANT
REACH COMPLIANT
ANTI RODENT & TERMITE**



homecab-FRTM

Flame Retardant

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

CONDUCTOR: The conductors, drawn from bright electrolytic grade copper and annealed and bunched together.

INSULATION: The bunched conductors are insulated with specially formulated FR PVC compound with a high insulation resistance value. The insulation process is carried out on modern high speed extrusion lines, which ensures high accuracy and consistency in performance. Flame retardant properties enable the cable to withstand overloads. The insulation is resistant to boiling water, steam and vapors. This prevents ageing and cracking in kitchens, bathrooms, damp walls and chemical industries.

MARKING: The cables are printed with generic marking 'HOMECAB'.

COLORS: Red, Yellow, Blue, Black, Green and Grey.

PACKING: 90 Meters (apprx.100 yards) pack in protective cartons.

HomeCab is a multi-stranded flexible wire with flame retardant properties. It has specially formulated insulation with a high oxygen and Lead Free & temperature index, enabling the wire to withstand overloads preventing electric mishaps. So, give yourself the promise of security and supreme quality. Get KEI house wires and safeguard your home for life.

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		
				Clipped Direct/Cable Tray	Conduit/Trunking	
Sq.mm	Number/mm	mm	mm	amps	amps	Ohm/km
0.5	16/0.2	0.6	2.6	4	4	39.0
0.75	24/0.2	0.6	2.8	7	8	26.0
1.00	32/0.2	0.6	3.0	12	13	19.5
1.50	30/0.25	0.6	3.4	14	17	13.3
2.50	50/0.25	0.7	4.1	19	23	7.98
4.00	56/0.3	0.8	4.8	25	31	4.95
6.00	84/0.3	0.8	5.3	33	39	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

BRIDGING THE GAP ACROSS 60 DIFFERENT COUNTRIES



THE POWER BEHIND THE POWER



Scan to reach other offices

KEI Industries Limited

REGISTERED AND CORPORATE OFFICE:

D-90, OKHLA INDUSTRIAL AREA PHASE-I, NEW DELHI-110020, TEL: +91-11-26818840/8642/0242 FAX: 26817225, 26811959

E-MAIL: info@kei-ind.com WEBSITE: www.kei-ind.com Toll Free no: 1800 410 0000 CIN NO: L74899DL1992PLC051527

