

MANUAL  
Catalogue



# LEO CAB™

## WIRES & CABLES



IS : 694  
  
CM/L-3847780

we make  
**electricity**  
safe

AN ISO  
9001 : 2008  
COMPANY

PVC Insulated **INDUSTRIAL**  
WIRES & CABLES



# About Us

**LEO CAB** is one of the leading manufactures of wide range of electrical PVC insulated wires & cables. Copper conductor PVC insulated cables are exclusively use in residential and commercial buildings for power distribution.

Today 90% of fires are attributed to electric short circuits and hence due care should be taken in selection and installation of electric cables.

**LEO CAB** is proud to give its distinguished assurance of complete safety to the customer. The ISI mark along with the FIA/TAC highlight the aspect of absolute protection that not only saves power but human lives too, by preventing electric shocks, short circuits and fires.

**LEO CAB** carries safety certification "S" mark that is internationally recognised and approved for quality product.

The cables are regularly tested at reputed independent test laboratories like CPRI, NTH, CETL & Shri Ram Test House.

The Product features of High Quality Flame Retardant PVC insulated cables are.

## CONDUCTOR :

Manufactured from electrolytic grade annealed copper, which make it an excellent conductor of electricity, thus helps in saving energy.

## INSULATION :


Conductors are insulated with a specially formulated Flame Retardant (FR) grade PV Compound having high insulation resistance and dielectric strength which prevents leakage of electric current, thus ensuring complete safety from shocks and short circuits. In addition the insulation Compound has flame retardant properties, which in the event of a fire minimizes and spread of fire, thus providing additional safety.

LEO CABLE the certification of ISO-9001, ISI:694 NSIC, SMERA, D&B, for our product.



Single Core/Multicore Flexible Cables as per IS 694 : Voltage grade up to 1100 Volts														
Area Sq. mm		0.5	0.75	1.0	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0	50.0	
No. of Size of wire (Nom.)		16/1.2	24/1.2	32/1.2	30/1.25 OR 48/1.2	50/1.25 OR 80/1.2	56/1.25	84/1.30	80/1.4 OR 140/1.3	126/1.4	196/1.4	276/1.4	396/1.4	
Conductor	Resistance (Max. @ 20°C)	ohms/km	39.0	26.0	19.5	13.3	7.98	4.95	3.30	1.91	1.21	0.780	0.554	0.386
	Current Rating DC or AC	Amps	4	7	12	15	20	7	35	46	62	80	102	138
	Thickness (Nom.)	mm		0.6	0.6	0.6	0.1	0.8	0.8	1.0	1.0	1.2	1.2	1.4
Insulation Single Core Unsheathed	Overall Diameter (Approx.)	mm	2.20	2.45	2.50	2.90	3.55	4.30	5.20	6.70	7.80	9.70	10.90	13.20
Single Core Sheathed	Sheathe Thickness (Nom.)	mm	0.9	0.9	0.9	0.9	1.0	1.0						
	Overall Diameter (Approx.)	mm	4.00	4.25	4.50	4.80	5.45	6.30						
Twin Flat Sheathed	Overall Width (Approx.)	mm	6.2	6.7	-	-	-	-						
	Overall Height (Approx.)	mm	4.0	4.25	-	-	-	-						
	Sheath Thickness (Nom.)	mm	0.9	0.9	0.9	0.9	1.0	1.0						
2 Core	Overall Diameter (Approx.)	mm	6.5	7.0	7.3	7.8	9.5	11.0						
	Sheathe Thickness (Nom.)	mm	0.9	0.9	0.9	0.9	1.0	1.0						
3 Core	Overall Diameter (Approx.)	mm	6.9	7.4	7.7	8.2	10.0	11.5						
	Sheathe Thickness (Nom.)	mm	0.9	0.9	0.9	1.0	1.0	1.0						
4 Core	Overall Diameter (Approx.)	mm	7.5	8.0	8.5	9.5	11.0	13.0						
	Sheathe Thickness (Nom.)	mm	0.9	0.9	1.0	1.0	1.0	1.1						
5 Core	Overall Diameter (Approx.)	mm	8.3	9.0	9.5	10.5	12.0	14.0						

**IS : 694**



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Single Core Flexible Cables Generally Conforming to IS:694 : Voltage grade up to 1100 volts								
Area Sq. mm.		70.0	95.0	120.0	150.0	185.0	240.0	
No. & Size of Wire		360/1.5	475/1.5	608/1.5	750/1.5	925/1.5	1221/1.5	
Conductor	Max. Res. & 200C	ohms/m	0.272	0.206	0.161	0.129	0.106	0.0801
	Current DC/AC	Amps	214	260	305	355	415	500
Insulation	Thickness (Nom.)	mm	1.4	1.6	1.6	1.8	2.0	2.2
	O.D. (Approx.)	mm	15.3	17.9	19.4	21.9	24.5	28.0



### Flexible Multicore Cables (6 core to 19 cores) Generally Conforming to IS 694: Voltage Grade up to 1100 Volts

Cores	Area Sq.mm	0.5	0.75	1.0	1.5	2.5	4.0
6	Sheathe Thickness (Nom.) mm	0.9	1.0	1.0	1.0	1.1	1.2
	Overall Diameter (Approx.) mm	9.0	10.0	10.5	11.5	13.5	16.0
7	Sheathe Thickness (Nom.) mm	0.9	1.0	1.0	1.0	1.1	1.2
	Overall Diameter (Approx.) mm	9.0	10.0	10.5	11.5	13.5	16.0
8	Sheathe Thickness (Nom.) mm	1.0	1.0	1.0	1.1	1.2	1.3
	Overall Diameter (Approx.) mm	9.5	10.5	11.0	12.0	14.5	17.0
10	Sheathe Thickness (Nom.) mm	1.0	1.1	1.1	1.1	1.3	1.4
	Overall Diameter (Approx.) mm	11.5	12.5	13.5	14.5	17.5	19.5
12	Sheathe Thickness (Nom.) mm	1.0	1.1	1.1	1.1	1.3	1.4
	Overall Diameter (Approx.) mm	12.0	13.0	14.0	15.0	18.0	20.5
14	Sheathe Thickness (Nom.) mm	1.1	1.1	1.1	1.2	1.3	1.4
	Overall Diameter (Approx.) mm	12.5	14.0	14.5	16.0	19.0	22.5
16	Sheathe Thickness (Nom.) mm	1.1	1.2	1.2	1.2	1.4	1.5
	Overall Diameter (Approx.) mm	13.5	14.5	15.5	17.0	20.5	24.0
19	Sheathe Thickness (Nom.) mm	1.1	1.2	1.3	1.3	1.4	1.5
	Overall Diameter (Approx.) mm	14.5	15.5	17.0	18.0	21.5	25.5



### Three & Four Core Flexible Cables for Voltage Grade upto 1100 Volts.

		Area sq. mm	6.0	10.0	16.0	25.0	35.0	50.0	75.0	95.0	120.0
	No. & Size of Wire	No./mm	84/3	140/3	226/3	354/3	495/3	703/3	360/5	475/5	608/5
				OR	OR	OR	OR	OR			
				80/4	126/4	196/4	276/4	396/4			
Conductor	Max. Res & 20°C	Ohms/km	3.30	1.91	1.21	0.78	0.554	0.386	0.272	0.206	0.161
	Current	Amps	31	42	57	72	91	120	165	200	255
Insulation	Thickness	mm	0.8	1.0	1.0	1.2	1.2	1.4	1.4	1.6	1.6
3-Core	Sheath Thickness (Nom.)	mm	1.3	1.4	1.4	1.5	1.6	2.0	2.2	2.4	2.5
	O.D. (Approx.)	mm	14.0	18.0	21.0	25.5	29.0	33.0	38.5	45.0	49.0
4-Core	Sheath Thickness (Nom.)	mm	1.4	1.4	1.4	1.6	1.7	2.0	2.2	2.4	2.5
	O.D. (Approx.)	mm	16.5	19.0	23.0	28.5	33.0	35.0	40.0	46.5	51.0

### Single Core Flexible Cables for UPS Cabling

PVC Insulated single core flexible cables in grey and white colour are ideal for use in cabling for UPS in establishment that have large computer network. These unique can help identify the cabling for UPS wiring in the circuit and available size 0.5 sq.mm to 6.0 sq.mm. These cables conforming to IS 694:694, carry the prestigious ISI mark and are duly approved by FIA/TAC

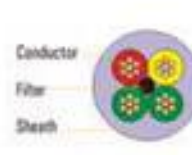
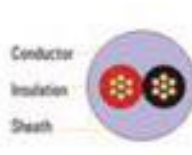
### Core Cables Colours

Type	Colour	
	Core	Sheath
Single Core unsheathed	Red, Yellow, Blue, Black, Green, White & Grey	Black
Single Core Sheathed	Black	
Twin Twisted	Red & Black	Black
Twin Flat Sheathed	Red & Black	Black
2 Core Round Sheathed	Red & Black	Black
3 Core Round Sheathed	Red, Black & Green /Yellow for earth	Black
4 Core Round Sheathed	Red, Yellow, Blue & Green/Yellow for earth	Black
5 Core Round Sheathed	Red, Yellow, Blue Black & Grey	Black



## Single Core Unsheathed Cables, 450/750 V DC and upto 1000 V AC

Conductor Class Section	Radial Thickness of Insulation	Cables with Standard Conductor (HO7V-R)		Cables with Flexible Conductor (HO7V-K)	
		Conductor construction No./Size of wire mm	Cable OD (Maximum) mm	Conductor construction No./Size of wire mm	Cable OD (Maximum) mm
0.5	0.6	7/0.30**	2.6	16/0.2*	2.6
0.75	0.6	7/0.37**	2.8	24/0.2*	2.8
1.0	0.6	7/0.44**	3.0	32/0.2*	3.0
1.5	0.7	7/0.53	3.5	30/0.25	3.5
2.5	0.8	7/0.67	4.2	50/0.25	4.2
4.0	0.8	7/0.85	4.8	56/0.3	4.8
6.0	0.8	7/1.04	5.4	84/0.3	6.4
10.0	1.0	7/1.35	6.8	80/0.4	7.6
16.0	1.0	7/1.70	8.0	126/0.4	8.8
25.0	1.2	7/2.14	9.8	196/0.4	11.0
35.0	1.2	19/1.53	11.0	276/0.4	12.5
50.0	1.4	19/1.78	13.0	396/0.4	14.5
70.0	1.4	19/2.14	15.0	360/0.5	17.0
95.0	1.6	19/2.52	17.0	475/0.5	19.0
120.0	1.6	37/2.03	19.0	608/0.5	21.0
150.0	1.8	37/2.25	21.0	75/0.5	23.5
185.0	2.0	37/2.25	23.5	925/0.5	26.0
240.0	2.2	61/2.25	26.5	1221/0.5	29.5



- \* These sizes are as per BS 6500 (harmonised code HO5 V-K, Voltage grade 300/500V), others are as per BS 6004. \*\* These sizes are not covered under HO7 V-R.
- standard conductor are Class 2 type, flexible conductors are Class 5 type as per BS 6360
- Cable up to and including 10.0 sq.mm can be offered with rigid/solid class 1 type conductors.
- On specific request, cables are sizes 6.0 sq.mm and above can be offered with class 6 extra flexible conductors as per BS 6360.
- Other type of cables offered to overseas market include.
- Multicore cable with standard (Class 2) flexible (Class 5) and extra flexible (class 6) conductors.
- Single and multicore cables with PVC double sheath.
- 3 core PVC insulated and PVC flat sheathed cables and 4 core flat cables also available.



leo cables

# Leo Cables

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