

The Most Dependable  
Source For Your  
**Electrical** Needs



Product Catalogue



**GANDHI INDUSTRIAL ELECTRICALS**

[www.gandhielectrical.com](http://www.gandhielectrical.com)

# Introduction



Power which brings development to the nation and joy to the human life, We deliver power solution and products for success of our customers.

Innovative and friendly services offer to our customer have made us one of the leading electrical distributors in the city.

Over the years we have added wide range of products in our premise.

## Our Vision:

To focus and ensure customers satisfaction by full filing their needs and expectation with supply of quality products & friendly services all the time.

## Our Mission:

To create a unique operational excellence, path breaking customer service and compelling marketing, to bring more advance and innovative products in our premise to benefit our customers & society

## Channel Partner / Stockist / Dealer




## AUTHORISED DISTRIBUTORS



MPCB



MCCB



Contactors



Isolators



Complete Solution



ACB



EFR



Panel Meter



Overload Relays



Weather Proof Plug &  
Socket



Distribution Board



MCB



RCCB



Energy Meters



Push Button Station



Starters

## GANDHI INDUSTRIAL ELECTRICALS

139, Linghi Chetty Street, Chennai - 1. Ph : 25262521, 42167609, 42625670.

E-mail : gandhibrothers1998@gmail.com | gandhibrothers@rediffmail.com

Web : [www.gandhielectrical.com](http://www.gandhielectrical.com)



# SWITCHGEAR

SAFE & SURE



**THE WIDEST  
RANGE BACKED  
BY THE FINEST  
SERVICE.  
WE GO THE EXTRA MILE.**

**L&T SWITCHGEAR**  
SAFE & SURE

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# SIEMENS



## Low Voltage Controls & Power Distribution Products



**Bajaj Electricals Ltd.**  
*Inspiring Trust*



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# Product Range



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ACB



MCCB



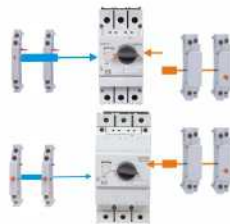
SFU'S



Power Contactors



MCB



MPCB



Mini Contactors



EMPR



Capacitor Duty Contactor



Overload Relays



Fuse



Push Button Station



Panels



Starters



Distribution Board



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## AUTHORISED DISTRIBUTORS



NUMERICAL FEEDER PROTECTION RELAY



NUMERICAL MOTOR PROTECTION RELAY



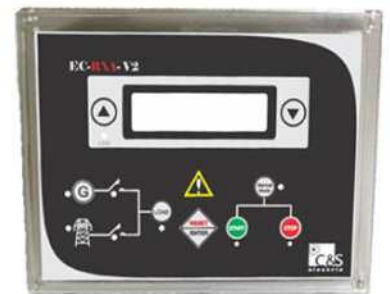
NUMERICAL IDMTL 30/C + 1E/F RELAY



AUTOMATIC POWER FACTOR CONTROL RELAY (APFCR)  
6 STAGE / 8 STAGE / 12 STAGE



ELECTRONIC MOTOR PROTECTION RELAY  
6 A / 60 A



AMF CONTROLLER



NUMERICAL REVERSE POWER RELAY



NUMERICAL UNDER & OVER VOLTAGE RELAY



DIGITAL METERS

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# Product Range



## AUTHORISED DISTRIBUTORS



Contactor



Overload Relays



Changeover



MCCB



Fuse



Isolators



ACB



CAM Lock Fuse Holder



ACB



Main Switch



Distribution Board



Wires & Cables



RCCB



MCB



Distribution Board



Modular Switches



Capacitor



Domestic Lightings



Flood Lights



Industrial Lightings

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**TIBCON**  
CAPACITORS

**TIBREWALA ELECTRONICS LIMITED**

*An ISO 9001-2008 Company*

## Introduction

As one of the most renowned manufacturers of Capacitors and MPP Film in India, **Tibrewala Electronics Limited (TEL)** has successfully reached the elite 100 Crore segment, having ventured to capture global markets across Asia, Africa, Australia, Europe and America. With an established presence of nearly three decades in the sector we have become an invaluable resource in the manufacture of industrial machinery and domestic appliances of several reputed international brands and even defence electronics, and presently over 40% of our products are earmarked exclusively for export. With a staggering investment of over 64 crores, today we proudly stand on the threshold of phenomenal outbound growth, adding value to our partners, customers and vendors, strongly contributing to the nation's industrial strength.

## Quality Systems

Tibcon products conform to global industry norms and international standards such as:

- ISO 9001-2008
- UL810 (Underwriters Laboratories)
- CSA (Canadian Standards)
- CE (European Declaration of Conformity)
- ISI (Indian Standards Institution)



## Products

- **AC Capacitors**
- **LT Capacitors**

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i ♥  
**ENERGY**

**NEPTUNE**

Connecting

Distributing

Managing

Control

Saving

Quality

**ENERGY**

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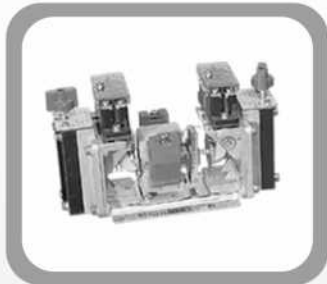


# SELEC®

Creating Best Value



## BCH ELECTRIC LIMITED



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## **TEKNIC / RAAS CONTROL / ESBEE / SCHNEIDER 22.5mm / 16mm PUSH BUTTON SWITCHES**

Flush Type / Booted Type, Mushroom Button / Mushroom Stayput, Selector (2/3 Position) Maintained, Selector (2/3 Position) Spring Return, Key Selector (2/3 Position, Mushroom With Key, Jumbo Mushroom, Joystick Controller (2/4) Position Maintained & Spring Return.



## **INSTRUMENT COOLING FANS - REXNORD / JAINSON**

Instrument Cooling Fans 12v To 440v A/C,  
D/C Square & Round Model  
Size : 3" 4" 6" 8" 10"



## **MEASURING INSTRUMENTS (DIGITAL & ANALOG)**

Clamp Meter (A/C D/C), Multi Meter,  
Tacho Meter, (contact Type, Non Contact Type)  
Temperature Controller Size : 48x48, 72x72, 96x96,  
Meggers, Earth Tester, Thermometer



## **OEN / OMRON / SALZER - PLA RELAY'S**

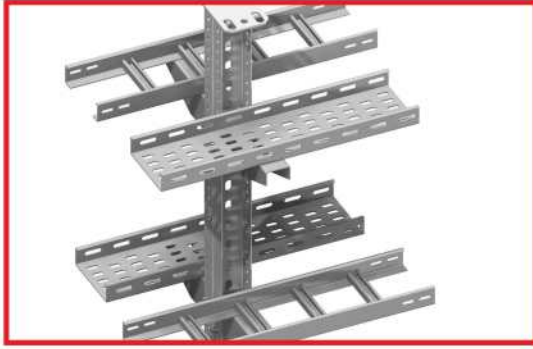
Electro Magnetic Plugin Relay 6/12/24/48  
110/220v - A/C D/C 8 Pin And 11 Pin, On Relay, Off  
Relay, Rapid Stop, With Led, Without Led.



## **WAGO / CONNECTWELL / ELMAX / JAINSON - CLIP ON TYPE TERMINALS**

Clip on Type Terminals, Standard Terminal Blocks, Stud Type  
Terminal, Bus Bar Terminals, Disconnection & Testing Terminal  
Unbreakable Terminal, Polyimide Terminal in all Colour.





## CABLE MANAGEMENT SYSTEM

G.I. Tray Frp Cable Trays, Perforated Cable Trays, Ladder Cable Trays & Accessories.



## CRIMPING TOOLS - JAINSON / DOWELLS / ASHWIN

For Copper / Aluminium Terminals & Connectors .05 sq.mm - 1000 sq. mm Hand & Hydraulic Operated



## KSS / GIANT LOCK WIRING ACCESSORIES

Cable Ties, White, Black 75mm, 100mm, 150mm, 200mm, 250mm, 300mm, 368mm, 450mm, 500mm, 750mm, 1020mm  
Tie Mount 19mm, 25mm



## PROXIMITY SENSOR, SSR, PHOTO SENSOR

Proximity Sensor Metallic and Non Metallic in Various Size and Sensing Distances in A/C and D/C Versions, SSR Single and Three Phase in all Model Viz D/C to A/C, A/C to A/C, D/C to D/C in 16, 25, 40, 63 amps Photo Sensor in Two Basic Model Viz, Diffuse Scan and Through Beam Type.



## SIEMENS / SCHNEIDER / C&S / HAVELLS / L&T - MCB, ELCB, MCCB

MCB Single Pole, Double Pole, Three Pole, Four Pole, in Various amps, MCCB in Different Breaking Capacity



## ROTARY SWITCHES

Ammeter, Voltmeter, Phase Selector, Forward Reverse Changeover, Program Switch, Rotary Switches Type All Range 6 amps To 100 amps Available



## HRC FUSE HOLDERS, BASE & FUSE LINK

HRC Fuse Holders 20 amps To 125 amps, HRC DMC Fuse Base 100 amps To 630 amps, HRC Fuse Link NS Type TIA Type, HF Type, HN Type & all Types



## PVC / METAL WATER TIGHT ENCLOSURE

Various Size & Models Up To IP65 Protection are Available Ex-Stock



## INDUSTRIAL SIREN, PENAL BUZZER & HOOTER

From Various Range 100mts - 5 km  
Multi Voltage Like' 12V/24V/110V/230V/440V.



## SWITCH FUSE UNIT & CHANGE OVER

SFU / CO are Available From 32amps. - 1200 amps. In 3 & 4 Pole Range With & Without Enclosures In Various Brands Like : **L&T / Siemens / Havells / Standard/ C&S.**





## HEAVY DUTY MULTI POLE INDUSTRIAL CONNECTORS

Multi Pole Industrial Connectors (Plug & Socket)  
Bottom Open & Close up to 48 Pins are Available Ex-Stock



## CABLES & WIRES

0.5sq.mm - 120sq.mm In Multi Single Core & XLPE UG Cables  
From 2.5sqmm - 630sqmm In Both Aluminium And Copper  
Upto 11kv are Available With Exise Gate Pass



## CABLE GLANDS & LUGS

Nickle Coated In Single And Double Compressor  
Available Upto 630sqmm In Brands Like : **COMMET/**  
**JAINSON / GIE**



## MOTOR STARTERS & CONTACTORS / OVER LOAD RELAYS

Brands Like : L&T / BCH / TC From 6 amps - 800 amps With  
3P & 4P Options & Up To 50HP Available Ex-Stock



## LUMINARIES : PHILIPS / HAVELLS / BAJAJ

Industrial Flood Light & Indoor Lighting From 11watts - 1000  
Watts are Available In Various Range Upto Protection IP 65



## CURRENT TRANSFORMERS & COILS

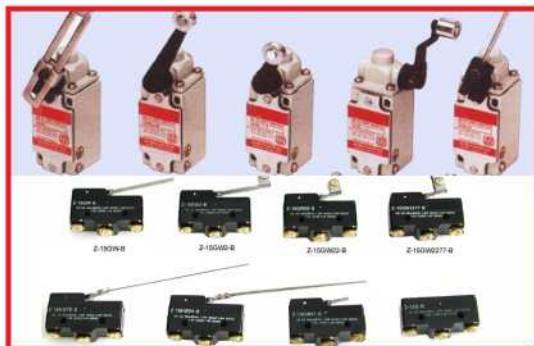
30/5a - 3000/5a 5va / 15va Clamp Type TNEB Type With R/Y/B/B Colour Coding Available In Various Size as Per Requirements



## AIR CIRCUIT BREAKERS & AUTOMATIC TRANSFER SWITCH

Available In 600amps - 4000amps In 3P / 4P, Manual & Micro Process Based

Brands Like : **SCHNEIDER / L&T / C&S / HAVELLS / SOCOMEC**



## LIMIT & MICRO SWITCH

Available In Wide Range Like : Normal Action, Snap Action, Adjustable Lever Up To 100amps.



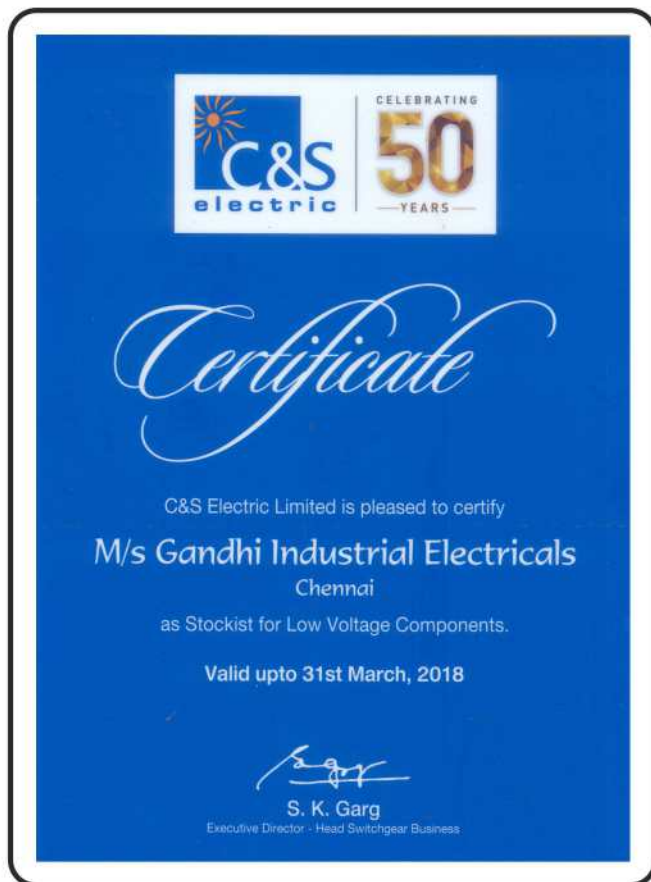
## KWH METERS / APFC RELAY MICRO CONTROLLER / TOTALIZER

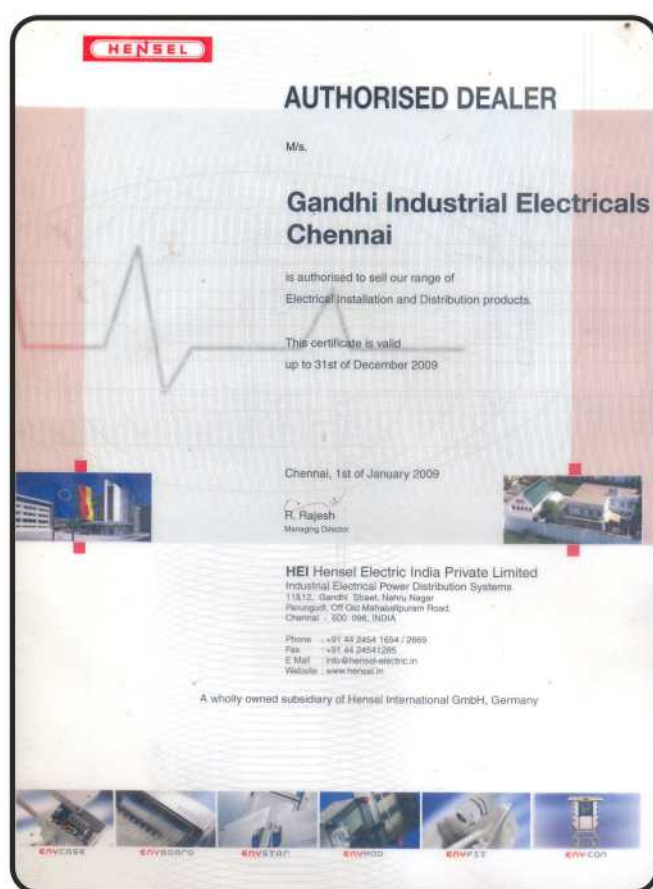
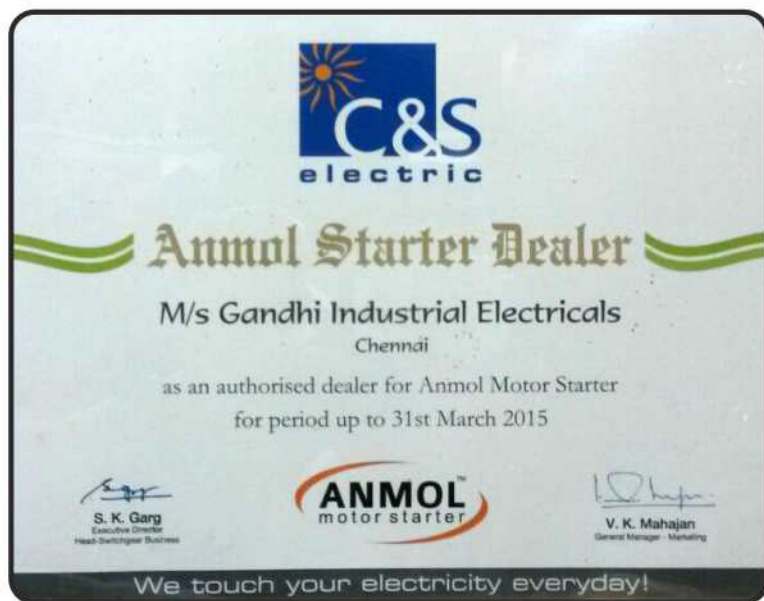


## WEATHER PROOF PLUG & SOCKETS

From IP 44 - 65 Total Solution Against Water & Power Protection









# Electrical Datas



## WEIGHT OF COPPER FLATS IN KILOGRAMS PER METER

Size W T	Wt. in Kg/Mtr.	Current Capacity Amps	Size W T	Wt. in Kg/Mtr.	Current Capacity Amps
1/2" x 1/8"	0.360	62	1 1/2" x 1/8"	1.080	180
1/2" x 1/4"	0.720	125	1 1/2" x 1/4"	2.160	375
3/4" x 1/8"	0.540	90	2" x 1/4"	2.880	500
3/4" x 1/8"	1.080	180	2" x 1/2"	5.760	1000
1" x 1/16"	0.360	62	2 1/2" x 1/4"	3.600	625
1" x 1/8"	0.720	125	2 1/2" x 1/2"	7.200	1250
1" x 1/4"	1.440	250	3" x 1/4"	4.320	750
1" x 1/2"	2.880	500	3" x 1/2"	8.640	1500
1 1/4" x 1/8"	0.900	155	4" x 1/4"	5.760	1000
1 1/4" x 1/4"	1.800	310	4" x 1/2"	11.520	2000

## WEIGHT OF COPPER WIRE

Imperial Standard wire Gauge (S.W.G.)	Diameter MM	Sectional Area Sq.mm	Weight Kilos/100m
7/0	12.70	126.6	113.1
6/0	11.78	109.1	97.6
5/0	10.97	94.5	85.0
4/0	10.16	81.0	72.6
3/0	9.45	70.1	62.5
2/0	8.84	61.4	54.8
0	8.23	53.1	47.7
1	7.62	45.6	40.8
2	7.01	38.6	34.7
3	6.40	32.2	28.8
4	5.89	27.3	24.4
5	5.38	22.7	20.4
6	4.87	18.7	16.6
7	4.46	15.7	14.0
8	4.07	12.9	11.6
9	3.66	10.5	9.4
10	3.25	8.3	7.5
11	2.95	6.8	6.1
12	2.64	5.4	4.9
13	2.34	4.4	3.9
14	2.03	3.4	2.9
15	1.83	2.8	2.3
16	1.62	2.0	1.8
17	1.42	1.6	1.4
18	1.22	1.1	1.0
19	1.01	0.8	0.7
20	0.914	0.6	0.5
21	0.812	0.5	0.4
22	0.716	0.3	0.3
23	0.609	0.2	0.2
24	0.558	0.2	0.2
25	0.508	0.2	0.1
26	0.457	0.1	0.1

## FLAXIBLE CABLE

Size	Mm2	Amps
16/20	0.50	4
24/20	0.75	7
32/20	1.00	11
48/20	1.50	14
80/20	2.50	19
128/20	4.00	26
84/20	6.00	33
140/30	10.00	45
101/0.45	16.00	60
157/0.45	25.00	75
220/0.45	35.00	95
314/0.45	50.00	125
354/0.50	70.00	170
484/0.50	95	210
614/0.50	120	235
750/0.50	150	295
925/0.50	185	330
1221/0.50	240	400
1521/0.50	300	475
2036/0.50	400	500

## BUSBAR SIZES

Switch Board Rating Amps	Busbar Size (Aluminium) mm	
	Phase	Nutral
100	25 x 6	25 x 6
200	38 x 6	38 x 6
300	63 x 6	38 x 6
400	2 x 38 x 6	38 x 6
500	2 x 50 x 6	50 x 6
600	2 x 63 x 6	63 x 6
800	2 x 50 x 9	50 x 9
1000	2 x 75 x 6	75 x 6
1250	2 x 75 x 9	75 x 9
1600	3 x 50 x 9	2 x 50 x 6
2000	125 x 12	100 x 9
2500	2 x 75 x 12	1 x 75 x 12
3200	2 x 100 x 9	1 x 100 x 9
400	3 x 75 x 12	2 x 75 x 9
	2 x 100 x 12	1 x 100 x 12
	2 x 125 x 12	1 x 125 x 12
	3 x 100 x 12	2 x 125 x 12
	3 x 100 x 12	2 x 100 x 9
	2 x 152 x 12	1 x 152 x 12
	4 x 125 x 12	2 x 125 x 12

## CURRENT RATINGS

FOR ALUMINIUM CONDUCTOR CABLES SUBJECT TO VOLTAGE DROP  
Vulcanised Rubber P.V.C. or Polythene  
Insulated cables\* sheathed with  
tough Rubber, P.V.C. lead  
TWIN, 3-CORE AND 4-CORE

**CONDITIONS OF INSULATION :** One cable in run in conduit,  
throughing or caring or in free  
air or open trench  
Ambient temperature : 30 C (86F)

Size of conductor		one twin-core cable d.c. or single-phase a.c.		one 3-core or 4-core cable balanced three phase	
Nominal Area mm2	Number and diameter or wire mm	Current rating amp	Approximate length of run for 1-volt drop d.c. meters	Current rating amp	Approximate length of run for 1-volt drop meters
1.5	1/1.40	10	2.3	7	3.7
2.5	1/1.80	15	2.5	11	3.9
4	1/2.24	20	2.9	14	4.8
6	1/2.80	27	3.4	19	5.5
10	1/3.55	34	4.2	24	6.8
16	7/1.70	43	5.3	30	8.7
25	7/2.24	59	6.6	42	10.8
35	7/2.50	69	7.1	48	11.7
50*	7/3.00	91	7.7	62	13.1
	19/1.80				
70	19/2.24	118	9.0	82	14.7
95	19/2.50	135	9.8	94	15.7
120	37/2.06	162	10.8	114	16.8
150	37/2.24	181	11.4	127	17.5
185	37/2.50	209	12.3	146	18.4
225	37/2.80	240	13.5	169	19.1
240	37/3.00	263	14.0	185	19.5
300	61/2.50	2989	14.6	202	20.0

\*These ratings apply for P.V.C. Insulated and Polythene insulated cables the maximum conductor size  
of wich is 50 mm2  
At rated current

Ambient temperature for ambient temperature other than 30 C (86F) multiply the current rating and  
divide the lengths for 1-volt drop by the appropriate factor below :

Ambient air temperature	25C (77F)	35C (95F)	40C (104F)	45C (113F)
Rating factor .....	1.13	0.86	0.6	0.47
Grouping Factor .....				
Number of cables .....	2	3	4	5
Rating factor .....	0.8	0.7	0.65	0.6

## POWER CAPACITOR FOR DIRECT CONNECTION INDUCTION MOTORS CAPACITORS KVAR AT MOTOR SPEED OF

Meter HP	3000 rpm	1500 rpm	1000 rpm	750 rpm	600 rpm	500 rpm
5	2	2	2	3	3	3
7.5	2	2	3	3	3	3
10	3	3	4	5	5	5
15	3	4	5	7	7	7
20	5	6	7	8	8	10
25	6	7	8	9	9	12
30	7	8	9	10	10	15
40	9	10	12	15	16	20
50	10	12	15	18	20	22
60	12	14	15	20	25	25
75	15	16	20	22	25	30
100	20	22	25	26	32	35
125	25	26	30	32	35	40
150	30	32	35	40	45	50
200	40	45	45	50	55	60
250	45	50	55	60	65	70

## A GENERAL IDEA ABOUT THE POWER CONSUMPTION OF HOME APPLIANCES

Table Fan	- 40W
Ceiling Fan	- 60W
Electric Iron	- 400W to 750W
Imersion Heater	- 250W to 1000W
Coil Stove	- 1250W to 2000W
Refrigerator	- 90W (165 Ltr. Fridge consume 1 Unit per day average)
500 VA stabilizer for	- 4 to 7 W Refrigerator
Washing Machine	- 200W to 350W (without heater)
Washing Machine	- 1500W to 200W (with heater)
Grinder / Mixie	- 350W to 500W
Window Type A/c	- 1500 to 3000W
Stabilizer for Air conditioner	- 20 to 40W
Water Heater	- 1500 to 2000W
Television Sets	- 60 to 90W

Out of above items like auto electric Iron, auto coil Stove, Water Heater, Refrigerator,  
Air Conditioners having Thermostat controls consumptions is only according to its usage.





AN ISO 9001:2008-14001 COMPANY®

**ORBIT**  
THE POWER PEOPLE

# INDUSTRY LEADER IN DESIGN & PERFORMANCE - WIRES & CABLES

IS : 694 : 1990  
IS : 1554 Part-1 : 1988  
IS : 7098 Part-1 : 1988



CM/L-3060134  
CM/L-3059957  
CM/L-3060033  
CM/L-8813687



CABLES



UG CABLES



## GANDHI INDUSTRIAL ELECTRICALS

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LIVE & LET LIVE