



 **BEDIYA**
WIRES & CABLES

LIGHTS FOR LIFE



HOUSEHOLD CABLES

www.bediyaglobal.com



ROBUST – RICH – RELIABLE

Imagine life without cables.... Impossible! Even in imagination. The reality is, cables are an integral and inseparable constituent of human life. Think of lights, machines, production activities, water needs, household devices etc all needs cables. Cables have been a core necessity for life in the present world. We live in the eco system in which lives are connected with cables and therefore it is very important to have highest quality for safer living and highest efficiency cables for smarter living, which adds our role to be a part in building green environment.

In this view, we have stepped in with enhanced cable quality with its design and ultra modern manufacturing capacities. Not only better but the best is what we offer to our esteemed customers at **BEDIYA WIRES AND CABLES (MAURITIUS) LIMITED**, throughout the wide range of products we manufacture.

ROBUST is the design of our cables that ensure the long life, utmost safety and unrelenting service of flowing the electrical energy through it.

RICH are our raw materials, which make the core of BEDIYA WIRES AND CABLES starting from the conductors, insulations and packing all are made up of rich quality genuine base material.

RELIABLE is the only character we display at BEDIYA WIRE AND CABLES, in the minds of our customers. We have become trust worthy and reliable partner in each of our customer's life.

BEDIYA WIRES AND CABLES – for Safety, Efficiency and Long Life, we recommend you to **USE IT, FEEL IT AND LIVE WITH IT.**



**ALL THE CABLES WE PRODUCE
ARE LEAD FREE (NON – TOXIC)
THEREFORE ADDING A STEP TO
GENERATE GREEN ENERGY WITH
HIGHEST EFFICIENCY TO
SAVE THE WORLD.**

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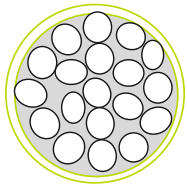
FR (FLAME RETARDANT)

APPLICATION : Wiring in conduit for protected installations in all places where fire safety is necessary like schools, buildings, theaters, commercial complexes, apartments, laboratories, internal industrial wiring, etc.

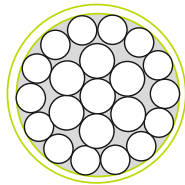
CONDUCTOR : Thin strands of electrolytic copper having highest purity, least resistance are multi drawn for uniformity in dimension and flexibility.

There are two types by which thin copper conductors are bunched :

1. Traditional bunch conductor
2. Unilay bunch conductor



TRADITIONAL Bunch Conductor



UNILAY Bunch Conductor

INSULATION : Specially formulated grade of Lead Free + Flame Retardant (FR) PVC compound is used for insulation. Flame retardant property retards the propagation of flame without compromising safety.

BENEFITS : Zero Halogen Acid Gas Evolution, Non Corrosive And Non Toxic Insulation, High Temperature Resistant Insulation, Better Flame Retardant Property, Resistance To Tarnishing Of Copper, Excellent Resistant To Moisture, Abrasion, Grease & Oil, Longer Flex Life.

MARKING : The cables are marked as 'BEDIYA FR'.

COLOUR : Red, Yellow, Blue, Black, Green & Grey.

PACKING : 90 meters coils packed in protective cartons. Project coils of 180 meters also available in carry bags.

SINGLE CORE : SIZES, DIMENSIONS AND RATINGS

Conductor Area	Insulation Thickness	Number & Nominal Diameter of Strands			Approx Overall Diameter	DC Conductor Resistance (Ω /km) at 20°C (Max.)	Current Rating	
		Unilay Flexible Wire	Non Unilay Super Flexible Wire	Non Unilay RM Wire			Casing	Consealed
Sq. mm	mm	Nos. / mm	Nos. / mm	Nos. / mm	mm	Ω /km	Amps.	Amps.
0.5	0.6	19 / 0.18	17 / 0.193	3 / 0.46	2.1	39.0	5	4.5
0.75	0.7	19 / 0.22	26 / 0.193	3 / 0.57	2.3	26.1	8	7
1	0.7	19 / 0.26	35 / 0.193	3 / 0.65	2.6	18.1	14	13
1.5	0.8	19 / 0.32	52 / 0.193	7 / 0.52	3.0	12.1	18	16
2	0.8	19 / 0.36	69 / 0.193	7 / 0.60	3.3	9.11	25	20
2.5	0.8	37 / 0.29	86 / 0.193	7 / 0.67	3.6	7.41	24	20
3	0.8	37 / 0.32	103 / 0.193	7 / 0.74	3.8	5.99	31	26
4	0.8	37 / 0.37	125 / 0.20	7 / 0.85	4.2	4.61	32	26
4.5	0.8	37 / 0.39	125 / 0.22	7 / 0.91	4.5	3.89	32	39
6	0.8	37 / 0.45	75 / 0.32	7 / 1.04	4.8	3.08	47	38
7	1	37 / 0.49	87 / 0.32	7 / 1.12	5.6	2.61	51	42
9.5	1	37 / 0.57	119 / 0.32	7 / 1.32	6.0	1.86	61	50
10	1	37 / 0.59	125 / 0.32	7 / 1.35	6.2	1.83	63	52
14.5	1	37 / 0.70	92 / 0.45	7 / 1.63	6.8	1.23	79	65
16	1	37 / 0.74	101 / 0.45	7 / 1.70	7.5	1.15	85	70

*Conduct as per IEC 60228, Class 2

PROPERTIES :

Properties	Test Method	Value
Limited Oxygen Index	IS 10810 P - 58	> 29%
Limited Temperature Index	IS 10810 P - 64	> 250°C

NOTE : BEDIYA WIRES AND CABLES (MAURITIUS) LIMITED will not be liable for damages arising due to incorrect installations. The above data is indicative and may be revised without prior intimation.

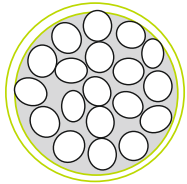
FRLSH (FLAME RETARDANT LOW SMOKE LOW HALOGEN)

APPLICATION : Wiring in conduit for protected installations particularly in fire and explosion prone areas like chemical factories, public buildings, schools, hospitals, commercial complexes, theaters, densely wired areas, etc.

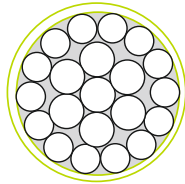
CONDUCTOR : Thin strands of electrolytic copper having highest purity, least resistance are multi drawn for uniformity in dimension and flexibility.

There are two types by which thin copper conductors are bunched :

1. Traditional bunch conductor
2. Unilay bunch conductor



TRADITIONAL Bunch Conductor



UNILAY Bunch Conductor

INSULATION : Specially formulated grade of Lead Free + Flame Retardant + Low Smoke + Low Halogen (FRLSH) PVC compound is used for insulation. The smoke emitted by the burning cable is considerably low compared to traditional cables. This ensures improved visibility for evacuation of trapped victims and facilitates fire fighting operation.

BENEFITS : Zero Halogen Acid Gas Evolution, Non Corrosive And Non Toxic Insulation, High Temperature Resistant Insulation, Better Flame Retardant Property Resistance To Tarnishing Of Copper, Excellent Resistance To Moisture, Abrasion, Grease & Oil, Longer Flex Life, Zero Toxic Shock In Fire Due To Lead Free Insulation.

MARKING : The cables are marked as 'BEDIYA FRLSH'.

COLOUR : Red, Yellow, Blue, Black, Green, Grey.

PACKING : 90 meters coils packed in protective cartons. Project coils of 180 meters also available in carry bags.

SINGLE CORE : SIZES, DIMENSIONS AND RATINGS

Conductor Area	Insulation Thickness	Number & Nominal Diameter of Strands			Approx Overall Diameter	DC Conductor Resistance (Ω /km) at 20°C (Max.)	Current Rating	
		Unilay Flexible Wire	Non Unilay Super Flexible Wire	Non Unilay RM Wire			Casing	Consealed
Sq. mm	mm	Nos. / mm	Nos. / mm	Nos. / mm	mm	Ω /km	Amps.	Amps.
0.5	0.6	19 / 0.18	17 / 0.193	3 / 0.46	2.1	39.0	5	4.5
0.75	0.7	19 / 0.22	26 / 0.193	3 / 0.57	2.3	26.1	8	7
1	0.7	19 / 0.26	35 / 0.193	3 / 0.65	2.6	18.1	14	13
1.5	0.8	19 / 0.32	52 / 0.193	7 / 0.52	3.0	12.1	18	16
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2.5	0.8	37 / 0.29	86 / 0.193	7 / 0.67	3.6	7.41	24	20
3	0.8	37 / 0.32	103 / 0.193	7 / 0.74	3.8	5.99	31	26
4	0.8	37 / 0.37	125 / 0.20	7 / 0.85	4.2	4.61	32	26
4.5	0.8	37 / 0.39	125 / 0.22	7 / 0.91	4.5	3.89	32	39
6	0.8	37 / 0.45	75 / 0.32	7 / 1.04	4.8	3.08	47	38
7	1	37 / 0.49	87 / 0.32	7 / 1.12	5.6	2.61	51	42
9.5	1	37 / 0.57	119 / 0.32	7 / 1.32	6.0	1.86	61	50
10	1	37 / 0.59	125 / 0.32	7 / 1.35	6.2	1.83	63	52
14.5	1	37 / 0.70	92 / 0.45	7 / 1.63	6.8	1.23	79	65
16	1	37 / 0.74	101 / 0.45	7 / 1.70	7.5	1.15	85	70

*Conduct as per IEC 60228, Class 2

PROPERTIES :

Properties	Test Method	Value
Limited Oxygen Index	IS 10810 P - 58	> 29%
Limited Temperature Index	IS 10810 P - 64	> 250°C
Smoke Density (Light Absorption)	ASTM - D 2843	< 60%
Acid Gas Generation	IS 10810 P - 59	< 20%

NOTE : BEDIYA WIRES AND CABLES (MAURITIUS) LIMITED will not be liable for damages arising due to incorrect installations. The above data is indicative and may be revised without prior intimation.

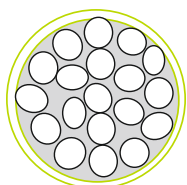
ZHFR (ZERO HALOGEN FLAME RETARDANT)

APPLICATION : Wiring in all places where fire safety is necessity like schools, buildings, theaters, commercial complexes, apartments, laboratories, internal industrial wiring, etc.

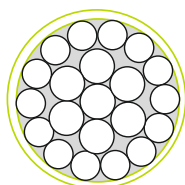
CONDUCTOR : Thin strands of electrolytic copper having highest purity, least resistance are multi drawn for uniformity in dimension and flexibility.

There are two types by which thin copper conductors are bunched :

1. Traditional bunch conductor
2. Unilay bunch conductor



TRADITIONAL Bunch Conductor



UNILAY Bunch Conductor

INSULATION : Specially formulated grade of Lead Free + Zero halogen + Flame Retardant (ZHFR) PVC compound is used for insulation. The insulation does not burn readily. It does not Melt and Drip, Smoke is negligible, Transparent, Non-Toxic. The trapped victims in fire do not suffocate and this facilitates fire fighting operations.

BENEFITS : Flame Retardant Property, High Temperature Resistant Insulation, Non Corrosive And Non Toxic Insulation, Zero Toxic Shock In Fire Due To Lead Free Insulation, High Resistance For Moisture Preventing From Oxidation.

MARKING : The cables are marked as 'BEDIYA ZHFR'.

COLOUR : Red, Yellow, Blue, Black, Green, Grey.

PACKING : 90 meters coils packed in protective cartoons. Project coils of 180 meters also available in carry bags.

SINGLE CORE : SIZES, DIMENSIONS AND RATINGS

Conductor Area	Insulation Thickness	Number & Nominal Diameter of Strands			Approx Overall Diameter	DC Conductor Resistance (Ω /km) at 20°C (Max.)	Current Rating	
		Unilay Flexible Wire	Non Unilay Super Flexible Wire	Non Unilay RM Wire			Casing	Consealed
Sq. mm	mm	Nos. / mm	Nos. / mm	Nos. / mm	mm	Ω /km	Amps.	Amps.
0.5	0.6	19 / 0.18	17 / 0.193	3 / 0.46	2.1	39.0	5	4.5
0.75	0.7	19 / 0.22	26 / 0.193	3 / 0.57	2.3	26.1	8	7
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14.5	1	37 / 0.70	92 / 0.45	7 / 1.63	6.8	1.23	79	65
16	1	37 / 0.74	101 / 0.45	7 / 1.70	7.5	1.15	85	70

*Conduct as per IEC 60228, Class 2

PROPERTIES :

Properties	Test Method	Value
Limited Oxygen Index	ASTM - D 2863	> 32%
Limited Temperature Index	ASTM - D 2863	> 250°C
Smoke Density (Light Absorption)	ASTM - D 2843	< 10%
Acid Gas Generation	IEC - 60754 - 1	< 5%

NOTE : BEDIYA WIRES AND CABLES (MAURITIUS) LIMITED will not be liable for damages arising due to incorrect installations. The above data is indicative and may be revised without prior intimation.

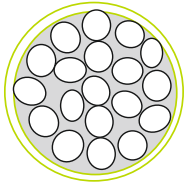
BTP (BEDIYA TRIPPLE PROTECTION)

APPLICATION : Wiring in all places where fire protection and safety is necessity like schools, buildings, theaters, commercial complexes, apartments, laboratories, internal industrial wiring, etc.

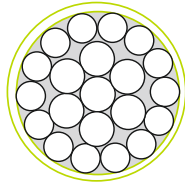
CONDUCTOR : Thin strands of electrolytic copper having highest purity, least resistance are multi drawn for uniformity in dimension and flexibility.

There are two types by which thin copper conductors are bunched :

1. Traditional bunch conductor
2. Unilay bunch conductor



TRADITIONAL Bunch Conductor



UNILAY Bunch Conductor

INSULATION : Specially formulated grade of Lead Free + Flame Retardant (FR) PVC compound is used for insulation. Triple insulation is done for added protection and safety.

BENEFITS : Flame Retardant Property, High Temperature Resistant Insulation, Non Corrosive And Non Toxic Insulation, Zero Toxic Shock In Fire Due To Lead Free Insulation, High Resistance For Moisture Preventing From Oxidation.

MARKING : The cables are marked as 'BEDIYA TRIPLE PROTECTION'.

COLOUR : Red, Yellow, Blue, Black, Green, Grey.

PACKING : 90 meters coils packed in protective cartoons. Project coils of 180 meters also available in carry bags.

SINGLE CORE : SIZES, DIMENSIONS AND RATINGS

Conductor Area	Insulation Thickness	Number & Nominal Diameter of Strands			Approx Overall Diameter	DC Conductor Resistance (Ω /km) at 20°C (Max.)	Current Rating	
		Unilay Flexible Wire	Non Unilay Super Flexible Wire	Non Unilay RM Wire			Casing	Consealed
Sq. mm	mm	Nos. / mm	Nos. / mm	Nos. / mm	mm	Ω /km	Amps.	Amps.
0.5	0.6	19 / 0.18	17 / 0.193	3 / 0.46	2.1	39.0	5	4.5
0.75	0.7	19 / 0.22	26 / 0.193	3 / 0.57	2.3	26.1	8	7
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1.5	0.8	19 / 0.32	52 / 0.193	7 / 0.52	3.0	12.1	18	16
2	0.8	19 / 0.36	69 / 0.193	7 / 0.60	3.3	9.11	25	20
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4	0.8	37 / 0.37	125 / 0.20	7 / 0.85	4.2	4.61	32	26
4.5	0.8	37 / 0.39	125 / 0.22	7 / 0.91	4.5	3.89	32	39
6	0.8	37 / 0.45	75 / 0.32	7 / 1.04	4.8	3.08	47	38
7	1	37 / 0.49	87 / 0.32	7 / 1.12	5.6	2.61	51	42
9.5	1	37 / 0.57	119 / 0.32	7 / 1.32	6.0	1.86	61	50
10	1	37 / 0.59	125 / 0.32	7 / 1.35	6.2	1.83	63	52
14.5	1	37 / 0.70	92 / 0.45	7 / 1.63	6.8	1.23	79	65
16	1	37 / 0.74	101 / 0.45	7 / 1.70	7.5	1.15	85	70

*Conduct as per IEC 60228, Class 2

PROPERTIES :

Properties	Test Method	Value
Limited Oxygen Index	IS 10810 P - 58	> 29%
Limited Temperature Index	IS 10810 P - 64	> 250°C

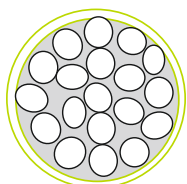
PVC

APPLICATION : Wiring in conduit for protected installations in all places like schools, buildings, theaters, commercial complexes, apartment, laboratories, internal industrial wiring, etc.

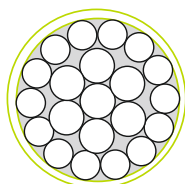
CONDUCTOR : Thin strands of electrolytic copper having highest purity, least resistance are multi drawn for uniformity in dimension and flexibility.

There are two types by which thin copper conductors are bunched :

1. Traditional bunch conductor
2. Unilay bunch conductor



TRADITIONAL Bunch Conductor



UNILAY Bunch Conductor

INSULATION : Specially formulated grade of Lead Free PVC insulation is used.

BENEFITS : Zero Toxic Shock In Fire Due To Lead Free Insulation, High Resistance For Moisture Preventing From Oxidation, High Temperature Resistant Insulation.

MARKING : The cables are marked as 'BEDIYA PVC'.

COLOUR : Red, Yellow, Blue, Black, Green, Grey.

PACKING : 90 meters coils packed in protective cartoons. Project coils of 180 meters also available in carry bags.

SINGLE CORE : SIZES, DIMENSIONS AND RATINGS

Conductor Area	Insulation Thickness	Number & Nominal Diameter of Strands			Approx Overall Diameter	DC Conductor Resistance (Ω /km) at 20°C (Max.)	Current Rating	
		Unilay Flexible Wire	Non Unilay Super Flexible Wire	Non Unilay RM Wire			Casing	Consealed
Sq. mm	mm	Nos. / mm	Nos. / mm	Nos. / mm	mm	Ω /km	Amps.	Amps.
0.5	0.6	19 / 0.18	17 / 0.193	3 / 0.46	2.1	39.0	5	4.5
0.75	0.7	19 / 0.22	26 / 0.193	3 / 0.57	2.3	26.1	8	7
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1.5	0.8	19 / 0.32	52 / 0.193	7 / 0.52	3.0	12.1	18	16
2	0.8	19 / 0.36	69 / 0.193	7 / 0.60	3.3	9.11	25	20
2.5	0.8	37 / 0.29	86 / 0.193	7 / 0.67	3.6	7.41	24	20
3	0.8	37 / 0.32	103 / 0.193	7 / 0.74	3.8	5.99	31	26
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6	0.8	37 / 0.45	75 / 0.32	7 / 1.04	4.8	3.08	47	38
7	1	37 / 0.49	87 / 0.32	7 / 1.12	5.6	2.61	51	42
9.5	1	37 / 0.57	119 / 0.32	7 / 1.32	6.0	1.86	61	50
10	1	37 / 0.59	125 / 0.32	7 / 1.35	6.2	1.83	63	52
14.5	1	37 / 0.70	92 / 0.45	7 / 1.63	6.8	1.23	79	65
16	1	37 / 0.74	101 / 0.45	7 / 1.70	7.5	1.15	85	70

*Conduct as per IEC 60228, Class 2

PROPERTIES :

Properties	Test Method	Value
Limited Oxygen Index	IS 10810 P - 58	> 29%
Limited Temperature Index	IS 10810 P - 64	> 250°C



Co-Axial

- Notch free attenuation value over wide range of frequencies.
- The special jacketing offers increased Life even in rugged conditions.

CONDUCTOR : The central conductor is made of solid electrolytic grade copper conductor, which has distinct advantages over traditional copper conductor.

INSULATION : The insulation provided over the conductor is of foam PE which acts as a dielectric.

SCREEN : Aluminium Mylar tape is provided over the insulated conductor to shield the conductor and ensure disturbance free transmission of signals.

Cable Design Parameters :

		Cable Type	
		RG 11 F	RG 6 F
Inner Conductor		ABC	ABC
Nom. Dia (mm)		1.63	1.02
Dielectric		Foam PE	Foam PE
Nom. Dia (mm)		7.00	4.50
Outer Conductor	First	Bonded AL Tape	Bonded AL Tape
	Second	Tinned Cu/AL Braid	Tinned Cu/AL Braid
Nom. Coverage (%)		60	60
PVC Jacket		Black	Black
Nom. Dia (mm)		10.00	7.00

BRAIDING : The braiding is generally provided with 60% coverage of ATC (Annealed tinned copper) / AL (alloy).

MARKING : The cables are marked as 'BEDIYA'.

Electrical Parameters:

	Cable Type	
	RG 11 F	RG 6 F
Inner Conductor-Max. Resistance (Ω /100m) @ 20°C	0.8	2.1
Nom. Capacitance (pF/mtr.)	53	53
Characteristic Impedance (Ω)	75	75
Velocity of Propagation (%)	85	85
Dielectric Strength (KV)	>1	>1
Minimum Bending Radius (mm)	75	65
Maximum Attenuation at 20°C (dB/100m) at	Max.	Max.
5 MHz	1.2	1.9
50 MHz	3.1	5.3
100 MHz	4.2	7.0
200 MHz	6.0	9.9
250 MHz	6.7	10.5
300 MHz	7.3	11.5
350 MHz	7.9	12.4
400 MHz	8.5	13.3
450 MHz	9.0	14.3
500 MHz	9.5	14.9
550 MHz	9.9	15.7
600 MHz	10.4	16.4
750 MHz	11.9	18.3
800 MHz	12.4	19.5
900 MHz	13.0	20.1
1000 MHz	14.2	21.4



BEING SAFE IS BEING SMART

Almost half of the fire accidents occur due to electrical reasons. Poor quality cables contribute to this.

Safety should be the utmost priority but efficiency is necessary to save the world. In that case both safety and efficiency is important for which perfect cable selection is required.

Things to be taken care of before selecting cables.

1) Quality of conductor

- Pure electrolytic grade copper
- Maximum current carrying capacity
- Correct gauge of each conductor
- Correct number of conductors
- Conductors with uniform gauge

2) Quality of insulation

- 100% lead free
- Flame retardant properties
- Non-toxic and smoke reducing properties
- High temperature resistant

3) Resistance of the conductor

- High current carrying capacity
- Best-lowered resistance value

BEDIYA WIRES AND CABLES HAVE IT ALL

OUR OTHER PRODUCT RANGE

WIRES & CABLES



HOUSEHOLD



SUBMERSIBLE



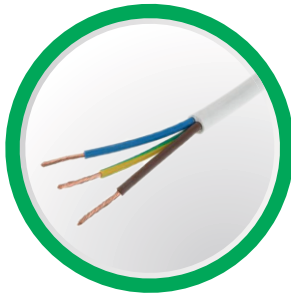
WELDING



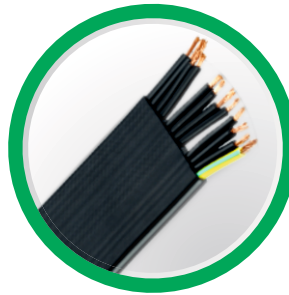
CO-AXIAL



POWER & CONTROL



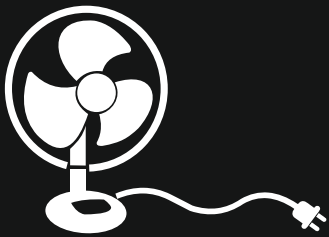
FLEXIBLE



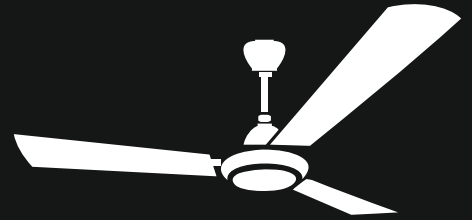
ELEVATOR



OVERHEAD



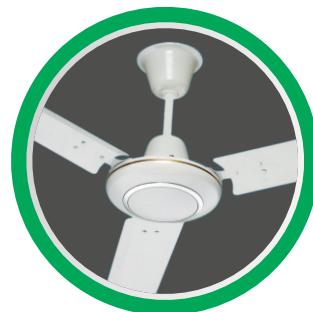
FANS



BCF 01W G



BCF 02W GR



BCF 03W S



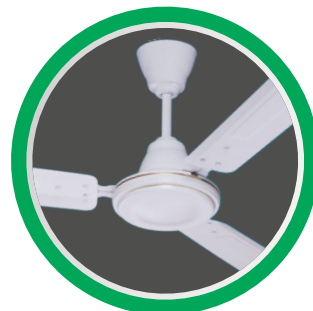
BCF 04W G



BCF 05W S



BCF 06W G



BCF 07W



BCF 10W G



L I G H T S F O R L I F E



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