

BENLO WIRE...NO FIRE !!!!











ISO 9001 : 2008 | ISO 14001 : 2004 | ISO 45001 : 2018







Welcome to **BENLO**!!!

The "BENLO" brand has gained significant popularity in India. This is likely due to its innovative approach, utilization of the latest technologies, and a strong presence in the market.

Our Company presence spans across India, making its products accessible to a wide range of customers, from individual homeowners to businesses of various sizes. We offer complete electrical solutions for residential, commercial & industrial purposes positions it as a one-stop-shop for customers' electrical needs. Our "BENLO" brand is widely accepted throughout India because it is innovative, uses the latest technologies, and has a strong market position. We offer complete electrical solutions for both homes and businesses.

NOW WE ARE INTRODUCING "BENLO" HIGH-QUALITY WIRE AND CABLE SOLUTIONS

Designed for reliability and safety, our wires and cables are backed by over three



decades of industry expertise. We offer a diverse range WIRE & CABLES as per Industry standards to meet the needs of residential, commercial and industrial electrical applications nationwide.





TRUST "BENLO" FOR YOUR WIRING SOLUTIONS FROM POWERING HOMES TO CONNECTING INDUSTRIES



4

>>>>> FR: Fire Retardant cable







Standard coil length 90 mtr. & 180 mtr. coil

BENLO FR CABLES - the flexible multi-stranded wire with flame-retardant features, boasts specially crafted insulation with a high oxygen and temperature tolerance, ensuring it withstands overloads, preventing electrical accidents. Choose BENLO house wires for the assurance of security and top-notch quality, safeguarding your home for generations to come.

>>> Application

BENLO FR wires and cables serve as the backbone for electrical installations in control panels, machinery, and diverse industrial environments, offering reliable performance even in dry and damp indoor conditions.

>>> Available Colours















>>> Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 P - 58	> 29 %
Limited Temp. Index	IS 10810 P - 64	> 250 ° C

Single Core Insulated copper Conductor (Unsheathed) Flexible Cables

1100 Voltage Grade for Industrial application

Sheath	Number /	Max. Conductor	Nominal	Nominal	Current Carrying Capacity 2 Cables Single Phase		
Nominal Cross Sectional area of Conductor	Nom. Dia of Cond. Strands*	Resistance per Km at 20° C	Overall Diameter of Cable	Thickness of Insulation	In Conduit/ trunking	Unenclosed Clipped directly to a surface or on cable tray	
Sq.mm.	mm.	Ohms	mm.	mm.	Amps.	Amps.	
0.50**	16/0.2	39.00	2.20	0.6	4	4	
0.75**	24/0.2	26.00	2.30	0.6	8	8	
1.00*	14/0.3	18.10	2.70	0.7	12	13	
1.50*	22/0.3	12.10	3.00	0.7	14	18	
2.50*	36/0.3	07.41	3.60	0.8	20	24	
4.00**	56/0.3	04.95	4.00	0.8	26	32	
6.00**	84/0.3	03.30	4.60	0.8	34	41	
10.0**	140/0.3	01.91	6.10	1.0	47	58	
16.0**	126/0.4	01.21	7.20	1.0	65	79	

^{*} Class 2 Conductor As Per IS 8130

>>> Construction

Conductor : 99.98% pure electrolyte grade Bright annealed bare Copper. : FR PVC compound with a high insulation resistance ensures Insulation

uninterrupted power supply at all weather condition.

Operating Temp : -15°C to maximum + 85°C



Power Saving



Pure Copper



FR Wire



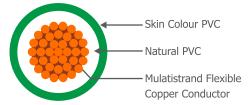
Flexible

^{**} Class 5 Conductor As Per IS 8130

>>>>> FR-LSH: Fire Retardant Low Smoke & Halogen



BENLO BENLO



Standard coil length 90 mtr. & 180 mtr. coil

BENLO FR- LSH CABLES - are designed with flame-retardant properties and low smoke and halogen emissions. BENLO Fire Guard stands as the pinnacle of wire insulation with a remarkable 30% oxygen index retardant, setting a new standard for fire resistance in the industry i.e. the most resistant and effective against fire hazards. Unmatched Flexibility and Cohesiveness with 100% Bunching This results in wires that exhibit superior flexibility, cohesiveness, conductivity, and work ability.

>>> Application

BENLO FR-LSH wires and cables Perfectly suited for installation within conduits and securely fixed settings, these cables are especially ideal for wiring in high-risk areas, such as fire and explosion-prone zones, chemical factories, crowded installations, public buildings, schools, hospitals, commercial Buildings.

>>> Available Colours















>>> Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 P - 58	> 29 %
Limited Temp. Index	IS 10810 P - 64	> 250 ° C
Smoke Density (Light Absorption)	IS 10810 P - 63	< 60%
Acid Gas Generation	IS 10810 P - 59	< 20%

Single Core Insulated copper Conductor (Unsheathed) Flexible Cables

1100 Voltage Grade for Industrial application

Sheath	Number /	Max. Conductor	Nominal	Nominal	Current Carrying Capacity 2 Cables Single Phase		
Nominal Cross Sectional area of Conductor	Nom. Dia of Cond. Strands*	Resistance per Km at 20° C	Overall Diameter of Cable	Thickness of Insulation	In Conduit/ trunking	Unenclosed Clipped directly to a surface or on cable tray	
Sq.mm.	mm.	Ohms	mm.	mm.	Amps.	Amps.	
0.50**	16/0.2	39.00	2.20	0.6	4	4	
0.75**	24/0.2	26.00	2.30	0.6	8	8	
1.00*	14/0.3	18.10	2.70	0.7	12	13	
1.50*	22/0.3	12.10	3.00	0.7	14	18	
2.50*	36/0.3	07.41	3.60	0.8	20	24	
4.00**	56/0.3	04.95	4.00	0.8	26	32	
6.00**	84/0.3	03.30	4.60	0.8	34	41	
10.0**	140/0.3	01.91	6.10	1.0	47	58	
16.0**	126/0.4	01.21	7.20	1.0	65	79	

^{*} Class 2 Conductor As Per IS 8130

>>> Construction

Conductor : 99.98% pure electrolyte grade Bright annealed bare Copper.Insulation : FR-LSH PVC compound with a high insulation resistance ensures

uninterrupted power supply at all weather condition.

Operating Temp : -15°C to maximum + 85°C



Power Saving



100 % Electronic





Extra annealing for better Flexibility

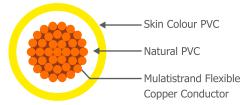
^{**} Class 5 Conductor As Per IS 8130

>>>>> ZH-FR: Zero Halogen Flame Retardant





BENLO



Standard coil length 90 mtr. & 180 mtr. coil

BENLO ZH-FR CABLES - **ZHFR** represents our dedication to environmental sustainability. This eco-friendly solution, combined with improved safety measures for fire incidents, is designed to mitigate the primary cause of death in indoor fires: smoke inhalation. In the unfortunate event of a fire, BanFire - ZHFR, crafted from specially developed in-house PVC polymers, minimizes smoke and halogen gas emissions, ensuring the safety of people in residential and commercial spaces, facilitating their rescue.

>>> Application

BENLO ZH-FR wires and cables Perfectly suited for installation within conduits and securely fixed settings, these cables are especially ideal for wiring in high-risk areas, such as fire and explosion-prone zones, chemical factories, crowded installations, public buildings, schools, hospitals, commercial Buildings.

>>> Available Colours















>>> Properties

Test	Test Method	Values
Limited Oxygen Index	IS 10810 P - 58	> 29 %
Limited Temp. Index	IS 10810 P - 64	> 250 ° C

Single Core Insulated copper Conductor (Unsheathed) Flexible Cables

1100 Voltage Grade for Industrial application

Sheath			Nominal	Nominal	Current Carrying Capacity 2 Cables Single Phase		
Nominal Cross Sectional area of Conductor	Nom. Dia of Cond. Strands*	Resistance per Km at 20° C	Overall Diameter of Cable	Thickness of Insulation	In Conduit/ trunking	Unenclosed Clipped directly to a surface or on cable tray	
Sq.mm.	mm.	Ohms	mm.	mm.	Amps.	Amps.	
0.50**	16/0.2	39.00	2.20	0.6	4	4	
0.75**	24/0.2	26.00	2.30	0.6	8	8	
1.00*	14/0.3	18.10	2.70	0.7	12	13	
1.50*	22/0.3	12.10	3.00	0.7	14	18	
2.50*	36/0.3	07.41	3.60	0.8	20	24	
4.00**	56/0.3	04.95	4.00	0.8	26	32	
6.00**	84/0.3	03.30	4.60	0.8	34	41	
10.0**	140/0.3	01.91	6.10	1.0	47	58	
16.0**	126/0.4	01.21	7.20	1.0	65	79	

^{*} Class 2 Conductor As Per IS 8130

>>> Construction

Conductor : 99.98% pure electrolyte grade Bright annealed bare Copper.

Insulation : ZH-FR PVC compound with a high insulation resistance ensures

uninterrupted power supply at all weather condition.

Operating Temp : -15°C to maximum + 85°C



Power Saving



Copper



FR Wire

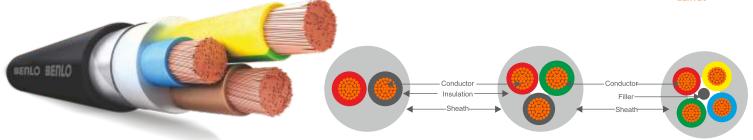


Extra annealing for better Flexibility

^{**} Class 5 Conductor As Per IS 8130

>>>>> MULTICORE FILEXIBLE CABLE





BENLO Multi core FR PVC insulated and PVC Sheathed Flexible cable combination to IS 694 is made with a highly flexible conductor and specially formulated FR (Flame Retardant) flexible PVC insulation and PVC sheathing compound that impart superior flexibility to the cable. Also made with FR-LSH grade sheathing less toxic gases.

>>> Application

MULTI-CORE SHEATHED CABLE are having wide range of application in housing appliances, machine, tools, control panels & other industrial applications. The product is made from specially formulated PVC compound which has excellent flexibility, abrasion properties & uniform laying which make it easily strippable. These cables facilitate the organization and management of complex industrial processes by enabling the connection of multiple devices

BENLO Multi-core cables play a pivotal role in ensuring the reliable and safe operation of industrial equipment, making them a fundamental component in various industrial sectors.

>>> Construction

Conductor : 99.98% pure electrolyte grade Bright annealed bare Copper.

insulation : FR PVC / FR-LSH PVC compound with a high insulation

resistance ensures uninterrupted power supply at all

weather condition.

Operating Temp : -15°C to maximum + 85°C

FLEXIBLE PVC INSULATED AND SHEATHED CABLE (CIRCULAR) UPTO 1100V AS PER IS 694: 2010

Sheath			4 Core		5 Core		Max. Conductor				
Nominal Cross Sectional area of Conductor	Nom. Dia of Cond. Strands*	Tahickness of insulation	Nor. Thickness of Sheath	Max O/all Dia	Nor. Thickness of Sheath	Max O/all Dia	Nor. Thickness of Sheath	Max O/all Dia	Nor. Thickness of Sheath	Max O/all Dia	Resistance @ 20° C
Sq.mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	Ohm/Amp
0.50	16/0.2	0.5	0.9	6.9	0.9	7.3	0.9	8.0	0.9	8.7	39
0.75	24/0.2	0.5	0.9	7.3	0.9	7.7	0.9	8.4	0.9	9.2	25
1.00	14/0.3	0.5	0.9	7.6	0.9	8.1	0.9	8.8	1.0	9.5	19.5
1.50	22/0.3	0.5	0.9	8.9	0.9	9.4	1.0	10.4	1.0	11.4	13.3
2.50	36/0.3	0.7	1.0	10.3	1.0	10.9	1.0	12.0	1.0	13.2	7.98
4.00	56/0.3	0.8	1.0	11.5	1.0	12.4	1.0	13.5	1.1	15.3	4.95

FLEXIBLE PVC INSULATED AND SHEATHED CABLE (CIRCULAR) UPTO 1100V AS PER IS 694: 2010

Sheath	Number /	Normal	2 0	ore	3 0	ore	4 C	ore	Max. Conductor
Nominal Cross Sectional area of Conductor	Nom. Dia of Cond. Strands*	Tahickness of insulation	Nor. Thickness of Sheath	Max O/all Dia	Nor. Thickness of Sheath	Max O/all Dia	Nor. Thickness of Sheath	Max O/all Dia	Resistance @ 20° C
Sq.mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	Ohm/Amp
6.00	84/0.3	0.8	1.1	13.0	1.2	13.8	1.2	15.47	3.30
10.00	140/0.3	1.0	1.3	16.3	1.4	17.59	1.4	19.50	1.91
16.00	226/0.3	1.0	1.4	19.4	1.4	20.60	1.4	23.00	1.21
25.00	354/0.3	1.2	1.4	23.8	1.5	25.60	1.6	28.50	0.78
35.00	495/0.3	1.2	1.6	27.2	1.6	29.30	1.7	32.70	0.554



Power Saving



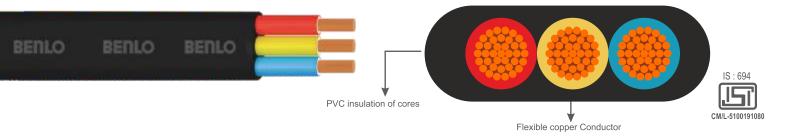
100 % Electronic Copper





Extra annealing for better Flexibility





BENLO FLAT CABLES are manufactured keeping in mind the severe and difficult conditions in which they are required to perform. The individual conductors are made from bright electrolytic grade copper. The wires are drawn, annealed and bunched properly to ensure flexibility and uniform resistance. Each of the three copper conductors is insulated with a special BLVD. compound formulated and manufactured in-house, and the cores are laid up in flat parallel position. The outer sheath of the cable is made from a special grade of abrasion resistant PVC compound impervious to water, grease, oil, etc.

3 CORE FLAT CABLES AS PER IS 694:2010 WITH ISI MARK

Cond	uctor	Insulation	Insulation Sheath Overall Dimention		imention	Conductor	Current
Area sq.mm	No. / Dia of strands mm	Thickness (Nom.) mm	Thickness (Nom.) mm	Width (Approx.) mm	Height (Approx.) mm	Resistance @20° (max)	carrying capacity @40°C Amps
mm.	mm.	mm.	mm.	mm.	mm.	ohm/km	Amps
1.50	22/0.30	0.6	0.9	11.0	5.0	13.30	13
2.50	36/0.30	0.7	1.0	13.0	6.0	7.98	18
4.00	56/0.30	0.8	1.0	15.3	6.7	4.95	24

The number of wires and strand diameter will be such as to satisfy the requirements of conductor resistanceas per IS 8130: 1984

3 CORE FLAT CABLES GENERALLY CONFIRMING TO IS 694: 2010

Cond	uctor	Insulation	Sheath	Overall D	imention	Conductor	Current
Area sq.mm	No. / Dia of strands mm	Thickness (Nom.) mm	Thickness (Nom.) mm	Width (Approx.) mm	Height (Approx.) mm	Resistance @20° (max)	carrying capacity @40°C Amps
mm.	mm.	mm.	mm.	mm.	mm.	ohm/km	Amps
6.00	84/0.30	1.0	1.15	18.7	7.9	3.30	31
10.0	140/0.30	1.0	1.40	23.7	9.9	1.91	42
16.0	226/0.30	1.0	1.40	28.0	11.4	1.21	57
25.0	354/0.30	1.2	2.00	35.5	14.7	0.780	72
35.0	495/0.30	1.2	2.00	39.5	16.2	0.554	90
50.0	703/0.30	1.4	2.20	45.5	18.3	0.386	115
70.0	360/0.50	1.4	2.20	51.0	20.0	0.272	143
95.0	475/0.50	1.6	2.40	60.0	23.5	0.206	165

Note: The strand diameter is nominal. However, construction of conductor is designed to satisfy the requirements of conductor resistance as per IS 8130:1984.

SELECTION GUIDE FOR 3 CORE FLAT CABLE

1. HP vs Current: The full load current for submersible pump motors, 3 phase, 50 cycles, 415-425 V.

НР	5.0	7.5	10.0	12.5	15.5	17.5	20.0	25.0	30.0	35.0
AMP	7.5	11.0	14.9	18.9	22.5	22.5	28.4	35.6	42.3	50.4
НР										
AMP	58.1	62.1	67.5	73.8	81.0	81.0	93.6	100.8	108.0	

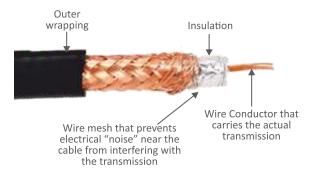
2. Deaerating Factors: Multiply the current carrying of the cable by factors given below for various ambient temp.

Ambient Temp. ° C	Ambient Temp. ° C
30	1.09
35	1.04
40	1.00
45	0.95
50	0.77

^{**}As per Conductor Class 5 of IS 8130:1984

>>>>> CO-AXIAL CABLE





BENLO co-axial cables, used for Cable TV networks, are the best that money can buy. Each feature is specially designed to give you the benefit. The inner conductor is made of solid annealed electrolytic. grade bare copper, drawn in house on modern machines. Insulation of special imported polyethylene foam compound is used as dielectric. This is extruded with the process of gas injected physical foaming on a sophisticated machine. The double screen of bonded laminated Al tape and Al wire braid ensures low loss transmission and clear reception. This is most evident in areas with high concentration of electromagnetic signals. The double screen offers lowers attenuation values than cables with single screening. It is jacketed with a special UV protected PVC compound formulated and manufactured in-house. Higher bandwidth means more than 100 channels. Excellent adhesion of dielectric to conductors, as well as uniform bonded aluminium foil provided good protection to cables against ingress of moisture. This makes it ideal for tropical conditions.

		1
Characteristics of	t (naxial (ah	IP
Characteristics of	Countai cab	

- Cost is relatively inexpensive
- Installation relatively simple
- Typical bandwidth of 10 Mbps
- Node capacity is 30 for thinnet; 100 for thicknet
- Attenuation much less that for twisted-pair
- Susceptible to EMI
- Plenum-grade must be used in ceilings and walls

Special Feature

- High bandwidth
- Notch-free attenuation over wide band of frequencies
- Suitable for power pass application
- With sequential length markings printed for extra convenience
- Every metre tested for all parameters by imported
- Computerised network analyser

ELECTRICAL PARAMETER	CABLE TYPE		
INNER CONDUCTOR Max. Resistance (Ohm/km) at 20°C	8.50	21.00	35.0
Loop Resistance (Ohm/km) at 20°C	16.80	28.50	46.43
Nom. Capacitance (pF/mtr)	53	53	53
Nom. Impedance (Ohm)	75	75	75
Nom Velocity Ratio (%)	85	85	85
Nom Attenuation at 25°C(dB/100m) at			
5 MHZ	1.50	1.90	2.82
55 MHZ	3.60	5.25	6.73
83 MHZ	4.32	6.40	8.04
187 MHZ	6.40	9.35	11.81
211 MHZ	6.80	9.95	12.47
250 MHZ	7.37	10.82	13.45
300 MHZ	8.12	11.64	14.60
350 MHZ	8.77	12.63	15.75
400 MHZ	9.42	13.61	16.73
450 MHZ	9.95	14.43	17.72
500 MHZ	10.56	15.09	18.70
550 MHZ	11.00	16.05	19.52
600 MHZ	11.60	16.73	20.34
750 MHZ	13.05	18.54	22.87
865 MHZ	14.20	20.01	24.57
1000 MHZ	15.50	21.49	26.64

CONSTRUCTION	Cable Type		
PARAMETER	RG 11 F	RG 6 F	RG 59 F
Inner Conductor	Solid Bare Copper	Solid Bare Copper	Solid Bare Copper
Nominal diameter (mm)	1.63	1.02	0.80
Dielectic	Foam PE	Foam PE	Foam PE
Nominal diameter (mm)	7.11	4.57	3.55
Outer Conductor	Bonded	Bonded	Bonded
FIRST	Al Tape	Al Tape	Al Tape
SECOND	Al Braid	Al Braid	Al Braid
Nominal Coverage (%)	60	60	60
Jacket	PVC (Black)	PVC (Black)	PVC (Black)
Nominal diameter (mm)	10.20	7.20	6.00



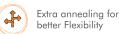
Power Saving



100 % Electronic Copper









Our wide range of products...

MCB | DB BOX | METER | SWITCHGEAR | LED | SWITCHES



visit us at www.**bentecindia**.com





Superior Quality WIRES & CABLES Manufactured by: **BENTEC** India Limited

ELECTRICAL SYSTEMS FOR A BRIGHTER FUTURE

AHMEDABAD Godown No. -9, Aslali gram panchayat, Milkat no. -1634 Bhagwan Estate, Aslali, Ahmedabad - 382427. Call : 9925 001 775 / 9669 099 969 Mail : ahmedabad@bentecindia.in

0

ASANSOL S B Gorai road,

Asansol - 713303. Call : 8250 552 792 / 9933 048 518 Mail : asn.bentec@gmail.com

BANGALORE Door No-19, 6th Main, Bangalore-560003 (Karnataka). Call: 080-4128 20 90 / 09845 007 857 0

BHAGALPUR House No-022 / 01120, In Front Of SBI Atm, Madnuchak Mirjanhah, Bhagalpur - 812005, Dist - Bhagalpur, Bihar. Call : 9431 335 558 / 8789 817 707 Mail : bgp.bentecindia@gmail.com

BHUBANESHWAR

Plot No. 2868, Odisha - 751002. Call : 9831 281 573

CHENNAI 32, 1st Floor, Saidapet, Chennai - 600015. Call: 9748 013 248

COCHIN Door No. 43/2253a-6, 2nd Block, Kuttysahid Bldg., S.R.M. Road, Cochin - 682018, Dist - Ernakulam (Kerala) Call : 91 8547 097 477

0

Jharia - 828111 Dist - Dhanbad (Jharkhand). Call : 9304 770 060

GUWAHATI

House No. 5, P.o. Odalbakra, Dist-kamrup (m), Assam - 781034. Call: 9831 111 030/7002 605 478

HYDERABAD

Secunderbad-500 003 (ts) Contact-040-27532615 Call: 8240605735/9831194283

Behind Jain Mandir, Snehlata Ganj, Indore (M.P.)- 452003. Call: 9329 027 210

JAIPUR

Hospital, New Sanganer Road, Mansarovar, Jaipur- 302020. Call: 9314 033 313/8005 745 247

JALANDHAR

Tanda Road, Jalandhar – 144004 (Punjab). Call: 01815 08 64 23 / 9915 800 483 Mail: bentec.jalandhar@gmail.com

LUCKNOW 350/141, Nanda Khera

Talkatora Road, Lucknow - 226017. Call : 9956 357 975

MUMBAI

Norman 504, Aditya Banarsi Heritage, Behind Inorbit Mall, Mind Space, Off Link Road, Malad (W), Landmark Nr. Rustomjee Alanza Mumbai - 400064.

Call : 022-2871 26 86 / 7303 928 980 Mail : vimal@bentecindia.com

NAGPUR

Navniketan Housing Society, Kannamwar Nagar, Nagpur - 440025. Call: 9604 052 882

B-150, First Floor Sector -63, Noida - 201301 Call: 8791 042 122

Mail: bentecindia.noida@gmail.com

Rcd/141, Bahadurpur Housing Colony, Bhoothnath Road, Patna, Bihar - 800026. Call : 9903 000 780

Jadhav Building, Gr. Floor, 27/2, Somwar Peth, 27/2, 3011War Felti, 15 August Chowk, Pune - 411011 (Maharashtra). Call : 09405006489/02026055779 Mail : bentec.pune@gmail.com

Godown No. 2, Baid Complex, Daldal Seoni Road, Mowa, Raipur - 492004. Call : 0771-4270 011, 9109 108 881 Mail: bentecraipur@gmail.com

Jharkhand. Call: 9835948195 / 7004 501 686

ROHTAK Plot No. -6, Near Reliance Tower Sainik Colony, Hissar Road Rohtak-124001 (Haryana).

Pranami Mandir Road, Opp. Sri Gayatri Bhawan, Siliguri-734001 (West Bengal). Call: 9940 084 022 Mail: siliguri.bentecindia@gmail.com

SURAT
Plot No. 27-28, Navrang Industrial Estate, Behind State Bank Of India, Sosyo Circle, U.M. Road, Surat - 395007 (Gujarat). Call : 02612 634 481 / 9374 141 52



CORPORATE OFFICE BENTEC INDIA LIMITED
Kasba Ind. Est., Phase II, Plot II,
Kolkata - 700 107



Customer Care No. 033-33-2443 2091 M: 9873 973 875

M: 8910 915 828

