

4

S

Founded in the year 1968, KUNDANCAB began its journey by manufacturing and marketing electrical cables. The company has over the period, witnessed exponential growth, driven by technical expertise, a diversified portfolio of high quality and innovative products, and the ability to respond on time to the changes in the market.

With over FIVE decades of experience in the cable industry, FYBROS offers unrivaled engineering expertise, which has been directed towards developing specialised products for a variety of sectors. We deliver high quality products and ensure regulatory compliances at all levels of the product development cycle from sourcing of raw material to design and manufacturing to packaging and delivery.

We manufacture various types of unparalleled quality Wires & Cables. Our range of wires & cables caters specific needs of clients meeting international quality standards.

Our-state-of-the-art manufacturing facility in Bhiwadi, Rajasthan is well equipped to meet the demands of the local market for housing wires and low voltage electric cables. We pride ourselves on our ability to identify and satisfy customer needs through development of innovative products and unique, cost effective cable solutions for a wide range of industries. Our extensive project experince make FYBROS the supplier of choice for cable projects in the residentail and commercial sectors.

We are also committed to comply with all applicable environments, health & safety legislation and all requirements of interested parties. Our commitment to the nation is to produce the best in quality and to ensure awareness among employees, society, interested parties about environment protection, minimization of waste, wise use of energy, water and other natural resources.



S	
\vdash	
Z	
ш	
\vdash	
Z	
0	

C

FR CABLES	
FR-LSH CABLES	
UFFR CABLES	
ZHFR CABLES	
3 CORE FLAT XLPE CABLES	
3 CORE FLAT PVC CABLES	
SINGLE & MULTICORE CABLES	
VIR CABLES	
CO-AXIAL CABLES	(
TELEPHONE AND SWITCHBOARD CABLES	10
LT POWER CONTROL CABLES - PVC/XLPE INSULATED	1 ⁻
COMPUTER & LAN NETWORKING CABLES	12
CCTV CABLES	1;



FYBROS introduces FR wires, multi-strand flexible FR PVC Insulated building wires with fire retardant properties. The conductor is insulated with a specially formulated Flame Retardant FR grade PVC Compound having high insulation resistance, oxygen, temperature index and dielectric strength which prevents the leakage of electric current. Suitable for use in surface mounted or embedded conduits or trunking. Also suitable for field protected installation in lighting fittings and inside appliances.

TEST TESTING METHOD SPECIFIED VALUE CRITICAL OXYGEN INDEX IS: 10810 PART 58 OXYGEN INDEX MINIMUM 29% TEMPERATURE INDEX IS: 10810 PART 64 MIN. TEMP INDEX 250°C AT 21% OXYGEN	FR PROPERTIES		
	TEST	TESTING METHOD	SPECIFIED VALUE
TEMPERATURE INDEX IS : 10810 PART 64 MIN. TEMP INDEX 250°C AT 21% OXYGEN	CRITICAL OXYGEN INDEX	IS: 10810 PART 58	OXYGEN INDEX MINIMUM 29%
	TEMPERATURE INDEX	IS: 10810 PART 64	MIN. TEMP INDEX 250°C AT 21% OXYGEN

Also meet requirements of Flammability test as per IS:694:2010

SINGLE CORE UNSHEATHED FLEXIBLE INDUSTRIAL CABLES IN VOLTAGE GRADE 1100 VOLTS

Nominal cross sectional area of conductor	Number/Nom. Dia of Wire	Nominal Thickness of Insulation	Overall Diameter (Approx)		rent carrying capacity ables, single phase#	Max. Resistance of Conductor per Km@20°C	IS:694 CM/L-8637693
				In conduit/ Trunking	Unenclosed clipped directly to surface or on cable tray		
Sq. mm	mm	mm	mm	Amps	Amps	Ohms.	
0.75	24/0.2**	0.6	2.3	6	7	26.0	
1.0	14/0.3*	0.7	2.7	11	12	18.10	
1.5	22/0.3*	0.7	3.1	13	16	12.10	
2.5	36/0.3*	0.8	3.7	18	22	7.41	
4.0	56/0.3**	0.8	4.1	24	29	4.95	
6.0	84/0.3**	0.8	4.7	31	37	3.30	

Supplied in 90 meters lengths in attractive cartoons Standard Colours: Red, Yellow, Blue, Black, Green for earthing

SINGLE CORE UNSHEATHED FLEXIBLE INDUSTRIAL CABLE IN VOLTAGE GRADE 1100 V.

SINGLE CORE UNSHEATHED FLEXIBLE INDUSTRIAL CABLE IN VOLTAGE GRADE 1100 V.								
10	80/0.4**	1.0	6.40	42	51	1.91		
16	126/0.4	1.0	7.60	57	68	1.21		
25	196/0.4	1.2	9.70	71	86	0.780		
35	276/0.4	1.2	10.60	91	110	0.554		
50	396/0.4	1.4	12.50	120	140	0.386		

Supplied in 90 meters lengths in Woven Bag & Cloth Packing. Standard Colours: Red, Yellow, Blue, Black. Longer length & other colors are available on request

**As per conductor Class 5 of IS:8130/2013 # As per IS:3961 (Part V)-1968 Sample Card available on request. (1.0 to 6.0 sq. mm)





MORE THAN CONDUCTIVITY

BUNCHING 100%



^{*}As per conductor Class 2 of IS:8130/2013. **As per conductor Class 5 of IS:8130/2013 Conform to IS 694/2010. ISI Licence number CM/L-8637693

FR-LSH

Flame Retardant Low Smoke and Halogen Multistrand Single Core Unsheathed Flexible IndustrialCables

FR-LSH has special flame retardant, low smoke emitting and toxic fumes suppressing properties. The oxygen index of a FYBROS Wires have 32% which increases its efficiency in fire fighting. In the case of fire, conventional PVC insulated wires give out thick black smoke and toxic fumes of hydrochloric acid gas. This impairs visibility and hampers rescue operations. Not only emits very little smoke and toxic gases, but also retrads the spreading of fire.

The conductor manufacture of Pure Electrolytic Grade, bright annealed bare copper having very low resistance with more than 100% conductivity which makes it an excellent conductor of electricity, thus sensuring low energy losses.



100% CONDUCTIVITY

OXYGEN ENTRAPMENT

XTRA GARD FR-LSH PROPERTIES								
TEST	TESTING METHOD	SPECIFIED VALUE FR-LSH						
CRITICAL OXYGEN INDEX	IS: 10810 PART 58	OXYGEN INDEX MINIMUM 29%						
TEMPERATURE INDEX	IS: 10810 PART 64	MIN. TEMP INDEX 250°C AT 21% OXYGEN						
TEST FOR SMOKE DENSITY RATING	IS: 10810 PART 63	MINIMUM 40%						
TEST FOR HALOGEN ACID GAS EVOLUTION	IS: 10810 PART 59	Hydrochloric acid gas released 20% max by weight						

Also meet requirements of Flammability test as per IS:694:90

SINGLE CORE UNSHEATHED FLEXIBLE INDUSTRIAL CABLES IN VOLTAGE GRADE 1100 VOLTS



Nominal cross sectional area of conductor	Number/Nom. Dia of Wire	Nominal Thickness of Insulation	Overall Diameter (Approx)		rent carrying capacity ables, single phase #	Max. Resistance of Conductor per Km@20°C
				In conduit/ Trunking	Unenclosed clipped directly to surface or on cable tray	
Sq. mm	mm	mm	mm	Amps	Amps	Ohms.
0.75	24/0.2**	0.6	2.3	6	7	26.0
1.0	14/0.3*	0.7	2.7	11	12	18.10
1.5	22/0.3*	0.7	3.1	13	16	12.10
2.5	36/0.3*	0.8	3.7	18	22	7.41
4.0	56/0.3**	0.8	4.1	24	29	4.95
6.0	84/0.3**	0.8	4.7	31	37	3.30
10.0	80/0.4**	1.0	5.8	42	51	1.91
16.0	126/0.4**	1.0	6.8	57	68	1.21

Conform to IS-694/2010. ISI Licence number CM/L-8637693 # As per IS:3961 (Part V)-1968

- * As per conductor Class 2 of IS:8130/2013
- ** As per conductor Class 5 of IS:8130/2013



Ultra Flexible Flame Retardant (Multistrand) Single Core Unsheathed Flexible Industrial Cable

With an increase in the number of electrical & electronic equipments being used today. More equipments get plugged into system than what it is designed to handle. This overloading leads to reduction of cable life and ultimately short circuit. Normal PVC cables are suitable for maximum operating temperature of 70° C.

STANDARDS : IS:694, BS:62131, IS:8130 & IS:5831.

CONDUCTOR: UFFR cables are made of highly Pure Electrolytic Grade bright annealed bare copper with more

than 100% conductivity which makes it an excellent conductor of electricity thus helps in saving

energy.

INSULATION: The cables, made with special formulated UFFR PVC compund, can withstand temperature

70°C compared to conventionaal wires that bear to 70°C under continues usage. The new development makes possible the longer life for cables and ability to withstand fluctuations and

emergency loads. With the production of this new breed of house wiring

KEY APPLICATIONS: For the wiring of all types of control panel, building, factories, relay racks, surface mounted or

embedded conduits trunking. Home Gard wire is used by electrical ocntractors, electricians,

municipalities and all major switch board manufacturers.

PACKING : FYBROS Multistrand Wires up to 6 Sq. mm are supplied in 90 metre Length in attractive carton.

Longer length available on request.

COLORS : FYBROS Multistrand wires are available in five colors Red, Yellow, Blue, Black & Green. Other

colors can be supplied on request. Subject minimum order quantity.

MARKING: The Cables are printed with generic making FYBROS by KUNDANCAB UFFR.

UFFR PROPERTIES

TEST	TESTING METHOD	SPECIFIED VALUE
CRITICAL OXYGEN INDEX	IS: 10810 PART 58	OXYGEN INDEX MINIMUM 29%
TEMPERATURE INDEX	IS: 10810 PART 64	MIN. TEMP INDEX 250°C AT 21% OXYGEN







HIGH DI-ELECTRIC STRENGTH





ZHFR

Zero Halogen Flame Retardant Multistrand Single Core Unsheathed Flexible Industrial Cables ZHFR (Zero Halogen Flame Retardant) Wiring cables are made with an imported specially formulated Non-PVC material which is a product of most advanced halogen free technology. It does not emit highly corrosive halogen acid gases /toxic fumes and there is almost nil smoke. In case of fire, the conventional wiring cables will produce toxic gases which are very harmful for the environment and will also hamper the rescue operations as the visibility becomes almost zero.





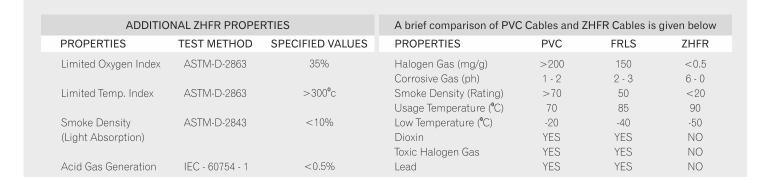












SINGLE CORE UNSHEATHED 1100 VOLTS ZHFR INSULATED INDUSTRIAL WIRES WITH COPPER CONDUCTOR

Nominal cross sectional area of conductor	Number/Nom. Dia of Wire	Nominal Thickness of Insulation	Overall Diameter (Approx)	Current carrying capacity	Max. Resistance of Conductor per Km@20°C
Sq. mm	mm	mm	mm	Amps	Ohms.
1.0	14/0.3*	0.7	2.7	13	18.10
1.5	22/0.3*	0.7	3.1	16	12.10
2.5	36/0.3*	0.8	3.7	22	7.41
4.0	56/0.3**	0.8	4.1	29	4.95
6.0	84/0.3**	0.8	4.7	37	3.30
10.0	80/0.4**	1.0	6.0	51	1.91

Supplied in 90 meters lengths in attractive cartons and longer length in multiples of 90 metre in project packing.
Standard Colours: Red, Yellow, Blue, Black, Green for earthing

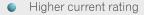


^{*}As per conductor Class 2 of IS:8130/2013.

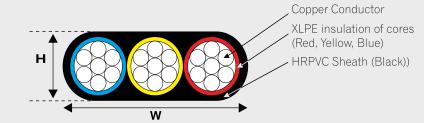
^{**}As per conductor Class 5 of IS:8130/2013

3-CORE FLAT **XLPE** INDUSTRIAL CABLES For Submersible Pump Motors

Submersible Cable is a specialized product to used for submersible pumps in deep well. The area of installation is physically restrictive environment is very hostile. The conductor is further insulated with thermoset type Cross Linked Polythene (XLPE) insulation with uniform thickness. The sheath with uniform thickness of Heat and Moisture Resistant type PVC (Grade ST2) compound formulated and manufactured in house, is extruded over these coloured cores in a flat formation. The colour of the sheath is black. The cables undergo stringent quality checks during raw materials, in process and final testing as per the laid down specification and the quality norms. The cables are available progressive sequential marking, company name, size & voltage



- Higher overload capacity
- Higher short circuit rating
- Lighter in weight and smaller bending radius
- Lower Di-electric constant and power factor
- Better impact, abrasion, corrosion resistance



3 CORE FLAT CABLES WITH COPPER CONDUCTOR XLPE INSULATION AND HR PVC SHEATH

0.11	DA DA METEDO	Size (Sq. mm)							
S. No.	PARAMETERS		2.5	4.0	6.0	10.0	16.0	25.0	35.0
1.	Conductor construction (No/mm)		36/0.3	56/0.3	84/0.3	140/0.3	226/0.3	354/0.3	495/0.3
2.	Conductor Resistance at 20°C (ohms/km) Max		7.41	4.95	3.3	1.91	1.21	0.780.	0.554
3.	Insulation Thickness (mm)	Nom	0.7	0.70	0.70	0.70	0.70	0.90	0.90
4.	Sheath Thickness (mm)	Nom	1.0	1.0	1.1	1.2	1.3	1.5	1.6
5.	Overall Dimension	Width (W)	12.7	14.9	16.9	20.3	23.8	29.6	33.6
	(mm) approx.	Height (H)	6.0	6.6	7.4	9.1	10.4	12.9	14.4

The number of wires and its diameter in the conductor will be such as to satisfy requirement of the conductor resistance as per IS 8130:2013 Current Carrying Capacity (Amps)

S. No.	CABLE TYPE	Size (Sq. mm)						
S. 1NO.	CABLE TIFE	2.5	4.0	6.0	10.0	16.0	25.0	35.0
1. 2.	 PVC Insulation XLPE Insulation 		26 37	31 46	42 66	57 85	72 113	90 139
	Ambient Temperature (Deg. C) Factor	25 1.18	30 1.12	35 1.06	40 1.00		45 1.94	50 0.88



LOW DI-ELECTRIC LOSSES MORE THAN 100% CONDUCTIVITY

HIGHER CURRENT RATINGS

100% ANNEALING SERVICE LIFE



3-CORE FLAT **PVC** INDUSTRIAL CABLES

For Submersible Pump Motors

These connecting cables are used to connect underwater submersible pump set with the supply line, agriculture, irrigation, domestic installation, outdoor application and power supply. Sumbersible Cable is a specialised product to used for submersible pumps in deep well. The area of installtion is physically restrictive environment is very hostile. FYBROS designed and manufacture keeping in mind factors to achieve the highest possible degree of reliability.



3 Core Flat Industrial Cables For Submersible Pump Motors, 1100 Voltage Grade

CONDL	ICTOR	INSULATION	SHEATH CONDUCTOR OVERALL DIMENSIONS (Max) RESISTANCE		~··-···			CURRENT CARRYING CAPACITY
Area (Nom.) Sq. mm	No. /size of Wires mm	Thickness (Nom.) mm	Thickness (Nom.) mm	Width "W" mm	Thickness "T" mm	ohms/km.	@ 40°C (Amp.)	
1.5	22.0.3*	0.6	0.90	12.00	5.60	12.10	14	
2.5	36/0.3*	0.7	1.00	13.00	6.20	7.41	18	
4.0	56/0.3**	0.8	1.00	15.30	7.10	4.95	26	
6.0	84.0.3	0.8	1.1	19.20	8.40	3.30	31	
10.0	140/0.3	1.0	1.40	24.20	10.40	1.91	42	
16.0	101/0.45	1.0	1.40	29.00	12.4	1.21	57	
25.0	158/0.45	1.2	2.00	36.50	15.70	0.780	72	
35.0	220/0.45	1.2	2.00	40.50	17.20	0.554	90	

Selection Guide for 3 Core Flat Cables

HP v	s Curr	ent : Th	ne full I	oad cu	rrent fo	or subr	nersibl	e pum	p moto	rs, 3 pł	nase, 5	0 cycle	s, 415-	425V						
HP	5.0	7.5	10.0	12.5	15.0	17.5	20.0	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	
Amp.	7.5	11.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.80	108.00	

Derating Factors: Multiply the current carrying capacity of the cable by factors given below for various ambient temperatures.

Ambient Temperature	30	35	40	45	50
Operating Factor	1.09	1.04	1.00	0.95	0.77

Note: Supplied in 500 (±5%) meter packing on Bags and Drums. Can also supplied in 100 mtr., 300 mtr. 1000 mtr. packing on request.

 The strand diameter is nominal however, construction of conductor is design to satisfy the requirements of conductor resistance as per IS:8130:1984



TEST VOLTAGE 3000 Volts

100% NNEALING

LONGER SERVICE LIFE MORE THAN 100% CONDUCTIVITY



^{*} As per conductor Class 2 of IS:8130:2013

^{**} As per conductor class 5 of IS:8130:2013

SINGLE & MULTICORE

Round Flexible Industrial Cables

These cables are mostly used for wiring in machines, control panels, electric power supply, modern electric appliances and equipment.



SINGLE CORE/MULTICORE ROUND FLEXIBLE INDUSTRIAL Cables as per IS-694/2010 Voltage grade upto 1100 Volts.



Conductor Area	No. & Size of each Strand	Thickness of PVC Insulation	Max DC Resist. at 20°C	Current Carrying Capacity	Thickness of PVC Outer Sheath (mm)		Approximate Overall Diameter (mm)			
Sq.mm	Nos/Dia	mm	Ohm/Km	Amps	2 Core	3 Core	4 Core	2 Core	3 Core	4 Core
0.5	16/0.2	0.6	39	4	0.9	0.9	0.9	6.15	6.40	7.05
0.75	24/0.2	0.6	26	7	0.9	0.9	0.9	6.55	6.85	7.50
1	32/0.2	0.6	19.5	12	0.9	0.9	0.9	6.90	7.20	7.90
1.5	*30/0.25	0.6	13.3	15	0.9	0.9	1.0	7.45	7.80	8.80
2.5	**50/0.25	0.7	7.98	20	1.0	1.0	1.0	8.95	9.35	10.35
4	56/0.3	0.8	4.95	23	1.0	1.0	1.0	10.35	10.85	12.05
6	84/0.3	0.8	3.30	35	1.1	1.1	1.2	11.65	12.20	13.80
10	140/0.3	1.0	1.91	36	1.2	1.2	1.3	14.55	15.30	17.25
16	101/0.45	1.0	1.21	62	1.3	1.3	1.4	16.80	17.70	19.95
25	157/0.45	1.2	0.78	80	1.4	1.5	1.6	21.90	23.25	26.20
35	220/0.45	1.2	0.554	102	1.5	1.6	1.7	24.60	26.10	29.45
50	314/0.45	1.4	0.386	138	1.6	1.7	1.8	29.00	30.75	34.70



The Number and diameter of conductor stands are for reference only.

The Conductor resistance as per IS: 8130 is the governing criteria.

The above data is approximate and subject to manufacturing tolerance



MORE THAN 100% CONDUCTIVITY

100% ANNEALING LONGER FLEX LIFE

100% BUNCHED



^{**}This size can be supplied in 80/0.2 Construction.

VIR CABLES PVC INSULATED UNSHEATHED

Solid Stranded Copper Wire

FYBROS PVC Insulated Unsheathed Single Core Wires manufactured with plain annealed copper conductor solid & stranded insulated with electric grade PVC compound conforming (Industrial Cables) conforming to IS: 694:2010 Voltage Grade 1100 Volts, The CIR wires & cables are suitable for fixed wiring, House/Domestic wiring/Project & Industrial Plants. etc.



100%

100% TWISTING

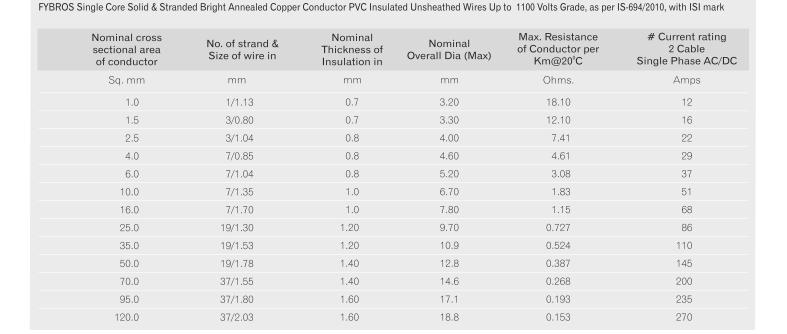
ELECTROLYTIC COPPER

LONGER FLEXIBLE LIFE

MORE THAN CONDUCTIVITY







Supplied In 90 Meter Lengths In Carton, Woven Bag & Cloth Packing Standard Colors: Red, Yellow, Blue, Black & Green

As per IS:3961 (Part V)-1968 Conform to IS 694/2010. ISI Licence number CM/L-8637693 Longer Length & other colors are available on request



TV DISH ANTENNA CO-AXIAL CABLES

Gas Injected Physical Foam Jelly Flooded Industrial Cables

Nominal Center Cond. Diameter

Nominal Diameter Over Jacket

Nominal Jacket Wall Thickness

Nominal Diameter Over Dielectric

Nominal Diameter Over First Shield (Tape)

Nominal Diameter of Steel Messenger

MECHANICAL CHARACTERISTICS

Minimum Breaking

Nominal Impedance

Shielding Effectivenes

Strength of Messenger

Components

Specification / Construction

FYBROS Coaxial cable (or "coax") is the most common cable used for transmitting video signals. The name "coaxial" refers to the common axis of the two conductors. Coaxial cable also offers high bandwidth per channel and low noise & crosstalk which makes the medium of choice for delivering high-defination video to and within the home, short coaxial cables are used to connect equipment, such as TVs, DVRs, VCRs or CATV

MM

1.02

4.57

4.75

7.00

0.76

1.30

1.83

RG-11

Stranded Shield

MM

1.63

7.11

7.29

10.00

1.07

1.83

2.77

Inches

0.064

0.280

0.287

0.395

0.042

0.072 (Single)

0.109 (Dual)

0.072

0.109

75 ohms 85%

>100dB

RG-6

Stranded Shield

Inches

0.040

0.180

0.187

0.272

0.030

0.051 (Single)

0.072 (Dual)

0.051

0.072

75 ohms

85%

>100dB



BETTER RECEPTION LESS ELECTRO MAGNETIC INTERFERENCE

LOW LOSS IN SIGNAL QUALITY

MOISTURE PROOF HIGHER BAND WIDTH

EXCELLENT ADHESION

A44 41	O 00 1 4	
Attenuation	<i>ര</i> 20 dea. 0	•

ELECTRICAL CHARACTERISTICS

Nominal Velocity of Propagation

Attendation @ 20 degi •			
Frequency MHz.	RG-59 Maximum dB/100m	RG-6 Maximum dB/100m	RG-11 Maximum dB/100m
211	12.47	10.00	6.23
250	13.45	10.82	6.72
270	14.08	11.12	6.99
300	14.84	11.72	7.37
325	15.45	12.20	7.67
350	15.75	12.63	7.94
400	16.73	13.61	8.53
450	17.72	14.43	9.02
500	18.70	15.09	9.51
550	19.52	16.08	9.97
600	20.34	16.73	10.43
750	22.87	18.54	11.97
870	24.67	20.01	13.05
1000	26.64	21.49	14.27

RG-59

Stranded Shield

MM

0.81

3.66

3.84

6.20

0.81

1.30

1.83

Inches

0.032

0.144

0.151

0.240

0.032

0.051 (Single)

0.072 (Dual)

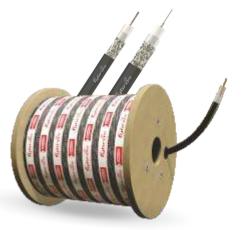
0.051

0.072

75 ohms

85%

>100dB



TELEPHONE & SWITCH BOARD CABLES

Tele-communications cables

Made of pure electrolytic grade bright annealed bare copper as per IS:8130 in 0.4, 0.5, 0.6 & 0.7 mm. The insulated cores are twisted to form pairs and bunched to minimize cross talk. The cores are helically wrapped. Non hygroscopic and non wicking polyester tape or tape to form laid up cables. The laid up cables are further jacketed with grey colour and high oxygen index fire retardant PVC. FYBROS Telephone and Switchboard cables are recommended for switchboard and internal telephone wiring in multistoreyed buildings, offices, factories, hotels, hospitals and residential complexes.



ELECTRICAL PARAMETERS

Conductor resistance
Mutual capacitance
Insulation resistance in Air
Capacitance unbalance Pair to Pair

0.4

Max. 143.0 ohm/km at 20℃

Max. 50 nf/km

Min. 10000N-Ohm/km

Max. 250 pf/km

0.5

Max. 92.20 ohm/km at 20°C

Max. 50 nf/km

Min. 10000M-Ohm/km

Max. 250 pf/km

COLOUR COMBINATION

No. of Pairs	2 Pair	5 Pair
Pair No. 1	White - Blue	White - Blue
Pair No. 2	White - Orange	White - Orange
Pair No. 3		White - Green
Pair No. 4		White - Brown
Pair No. 5		White - Grey

CONSTRUCTION

Condu	ctor	Insulation		Rip	Cord	Sheath		
Material	Nominal Diameter (mm)	Material	Nominal Thickness (mm)	Nominal Dia of Insulated Conductor (mm)	Material	Material	Nomir Thicknomic (mm	ess
Bright Annealed Pure Electrolytic Bare Solid Copper	0.50	PVC	0.20	0.92	Nylon	FR PVC with high oxygen and temp. index	1 Pair 2-8 Pair 10 Pair	0.50 0.65 0.75
Bright Annealed Pure Electrolytic Bare Solid Copper	0.40	PVC	0.20	0.82	Nylon	FR PVC with high oxygen and temp. index	1 Pair 2-8 Pair 10 Pair	0.50 0.65 0.75







XLPE / PVC

LT-POWER/CONTROL CABLE

Insulated Cables

Conductors are made from electrolytic grade aluminium / copper conforming to IS:8030, and are compact or compact shaped, solid / straded circular. Fybros XLPE cables are specially made from high grade cross-linked polyethylene for insulation by extrusion process. In multiple cables, cores are laid-up as per the above colour scheme, inter slices are filled wherever necessary to make the laid-up cores circular.

OPERATING CHARACTERISTIC: Advantages of c

A. Max. Conductor Temperature for continuous operation:
 B. Ambient Air Temperature
 C. Standard Ground Temperature
 30°C
 D. Thermal Resistivity of Soil
 150°C

D. Inermal Resistivity of Soil : 150°C | Cm/Watt

E. Thermal Resistivity : 350°C | Cm/Watt

F. Depth of Laying (for Cables laid direct in ground) : 75 cm
G. Minimum Bending Radius (for Multi Core Cables) :12D(D-Dia of cable)
H. Max. Conductor temperature during short circuit : 250°C

H. Max. Conductor temperature during short circuit : I. Maximum Ambient, Air temperature :

J. Type of Installation

i. 3 Core Cables
 ii. Single Core Cables
 ii. Single Core Cables
 iii. Single Cables
 iii. Single Cables
 iii. Single Cable

PRODUCT CODE : As per IS:7098-Part:1

	CONSTITUENT	CODE
*	Aluminium Conductor	А
*	XLPE Insulation	2X
*	Round Steel Wire	W
*	Flat Steel Stip Armour	F
*	Double Round Steel Wire Armour	WW
*	Double Flat Steel Strip Armour	FF
*	Non Magnetic (AL) Round Wire Armour	WA
*	Non Magnetic (AL) Strip Armour	FA
*	PVC Outer Sheath	Υ

Advantages of our LTXLPE Cables:

- Higher Rating of Current and short circuits.
- * Thermosetting nature
- * Insulation resistance is 100 times more than PVC cables
- ' High moisture resistance
- * Improved surge current resistance
- * Low dielectric losses
- * Enhanced chemical and corrosion resistance

Main Features:

85°C

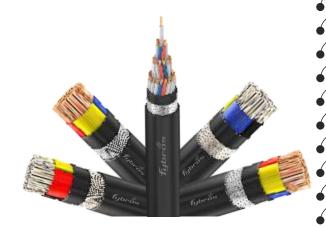
- * LT-XLPE Cables have longer life as compared to conventional PVC Cables
- * LT-XLPE Cables have a higher conductor temperature rating i.e. 90°C.
- * LT-XLPE Cables have a higher emergency overload capacity 120°C.
- Max. Temperature limit under short circuit conditions for LT-XLPE Cables is 250°C. Hence XLPE Cables have higher short circuit rating.
- * Insulation resistance of LT-XLPE Cables is excellent & superior to identical PVC Cables
- * LT-XLPE Cables have high corrosion resistance in polluted atmosphere
- * LT-XLPE Cables have better properties of resistance to chemical and corrosive gases
- * LT-XLPE Cables have low installation cost because of light weight dimensions and are far more flexible
- LT-XLPE Cables have better properties to withstand vibrations hot impacts
- * Jointing of LT-XLPE Cables is easier and quicker.

	LT XLPE C	ABLES			LT PVC CABLES				
CABLE TYPE	CONDUCTOR	GRADE	MFG. RANGE SPECIFICATION	RELEVANT	CABLE TYPE	CONDUCTOR	GRADE	MFG. RANGE SPECIFICATION	RELEVANT
Power Cable	Aluminium & Copper Conductor	1.1 KV	Single core upto 1000 mm² and Multicore upto 630 mm²	IS:7098 / PART-1/ 1988	Power Cable	Aluminium & Copper Conductor	1.1 KV	Single core upto 1000 mm2 and Multicore upto 630 mm2	IS:1554 / PART-1/ 1988
Control Cable	Copper Conductor	1.1 KV	Up to 61 core 1.5 mm ² and 2.5 mm ²	IS:7098 / PART-1/ 1988	Control Cable	Copper Conductor	1.1 KV	Up to 61 core 1.5 mm ² and 2.5 mm ²	IS:7098 / PART-1/ 1988



LONGER LIFE HIGHER CONDUCTOR TEMP.

HIGHER OVERLOAD CAPACITY HIGH CORROSION RESISTANT



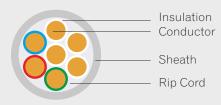
COMPUTER & LAN

LAN CABLES - CAT 5E 100 MHZ. (unshielded Twisted Pair) CAT 5E UTP cables are very effective network cabling systems used in modern computer networks. These cables from the backbone of modern data transmission in Commercial areas, Industries, Buildings, FYBROS provide a wide range of CAT, 5E Cable & Fibre Optic Cables that is manufactured using quality tested material, is a twisted pair cable type designed for high signal integrity. Many such cables are unshielded but some are shielded. Category 5 has been superseded by the Category 5e specification. This type of cable is often used in structured cabling for computer networkss such as Ethernet, and is also used to carry many other signals such as basic voice services. These products are known for high quality features like flexibility, compatibility and durability. This cables from the backbone of modern data transmission in commercial areas.



538 ns/100 m





Technical DataImpedance100+/-15 ohmMutual Capacitance, max nf/100m5.6DC Resistance, max Ohm / 100m at 20°C9.38DC Resistance Unbalance of a Pair, max5%Capacitance Unbalance - pair to Ground, max330 pf/100 mVelocity of Propagation at 100 MHZ,Min62%Propagation Delay Skey at 20°C, max45 ns/100 m

Propagation Delay at 100 MHZ, 20°C, max

HIGH BIT RATES USE IN STRUCTURAL CABLINE

CHOICES OF JACKETING SNARI FREE PACK SUBSTITUTE FOR IMPORTED CABLES

SPECIFICATION / CONSTRUCTION

Conductor	Insulation	No. of Pairs	Colour Combination	Rip Cord	Sheath. Colour	Nom. over all Diameter
24 AWG (0.5 mm) bare solid copper	HDPE FRPE	4 UTP (Unshielded Twisted Pair)	Pair 1. Blue-White/Blue 2. Orange - White/Orange 3. Green - White/Green 4. Brown - White/Brown	Nylon cord under sheath	FR PVC Grey colour (other colours available on request)	5.2 ± 0.2 mm

SPECIFICATION / CONSTRUCTION

Frequency (MHz)	Attenuation Max (db/100m)	NEXT min. (db)	ACR Min. (db)	PC NEXT Min. (db)	PC ACR Min. (db)	ELFEXT Min (db/100 m)	PS ELFEXT Min (db/100 m)	RL Min. (db)
1	2.0	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.0	56.3	52.2	53.3	49.2	51.7	48.7	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25.0
16	8.2	47.3	39.1	44.3	36.1	39.7	36.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	33.9	38.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.8	24.8	21.5
1000	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1



CCTV CABLES

CLOSED CIRCUIT TELEVISION CABLES

FYBROS CCTV Cables: Survelliance is a primary function in safety and security for many environments such as schools, casinos, prisons and businesses. The selection of cameras and other electronic equipment is a primary concern, but the link between the electronics should be taken with extreme caution. FYBROS Wire provided CCTV coaxial cables from short run appliances to the most critical long-distance applications. CCTV Cables provided by us is a composite structure of Video and audio wires intended to install the cameras with audio system from one point to equipments system. We use best quality raw materials to ensure efficient operation standards. Further, our CCTV Cables are safe and reliable transmission of voice, video & data. These CCTV Cables are available in various specifications and reasonable prices to suit client's.

打りいる SMART ELECTRICAL CREATIONS

POWER CABLE ATC ATC ATC ATC NO. OF STRANDS NOS 14 14 STRAND DIA MM 0.124 0.124 INSULATION PVC PVC PVC THICKNESS (NOMINAL) MM 0.56 0.56 COLOR R, BE, Y R, BE, RR, Y COAXIAL CABLE ATC ATC CONDUCTOR MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052	CONSTRUCTION	MATERIAL	KUNDAN CAB	KUNDAN CAB
CONDUCTOR ATC ATC ATC ATC NO. OF STRANDS NOS 14 14 14 STRAND DIA MM 0.124 0.124 0.124 INSULATION PVC PVC PVC PVC THICKNESS (NOMINAL) MM 0.56 0.56 0.56 COLOR R, BE, Y R, BE, RR, Y R. BE, RR, Y COAXIAL CABLE ATC ATC ATC ATC ATC ATC CONDUCTOR MM 0.124/14 0.024/14 0.124/14 0.024/14 0.024/14 0.124/14 0.024/14 0.024/14 0.124/14 0.024/14 0.024/14 0.024/14 0.024/14 <td< td=""><td>CABLE SIZE</td><td></td><td>CCTV CABLE 3+1</td><td>CCTV CABLE 4+1</td></td<>	CABLE SIZE		CCTV CABLE 3+1	CCTV CABLE 4+1
NO. OF STRANDS NOS 14 14 STRAND DIA MM 0.124 0.124 INSULATION PVC PVC PVC THICKNESS (NOMINAL) MM 0.56 0.56 COLOR R, BE, Y R, BE, RR, Y COAXIAL CABLE ATC ATC CONDUCTOR ATC ATC CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE MM 1.24/14 0.124/14 INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) MM 0.052 0.052 BRAIDING ATC ATC ATC WILL MM/% 15/100% 15/100% BRAIDING ATC ATC ATC WILL MM 0.12 0.12 BRAIDING COVERAGE % 60 <td>POWER CABLE</td> <td></td> <td>3C X 0.15 SQ. MM</td> <td>4C X 0.15 SQ. MM</td>	POWER CABLE		3C X 0.15 SQ. MM	4C X 0.15 SQ. MM
STRAND DIA MM 0.124 0.124 INSULATION PVC PVC PVC THICKNESS (NOMINAL) MM 0.56 0.56 COLOR R, BE, Y R, BE, RR, Y COAXIAL CABLE TO ATC CONDUCTOR ATC ATC CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE FOAM FOAM ITHICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE	CONDUCTOR	ATC	ATC	ATC
NSULATION	NO. OF STRANDS	NOS	14	14
THICKNESS (NOMINAL) MM 0.56 0.56 COLOR R, BE, Y R, BE, RR, Y COAXIAL CABLE CONDUCTOR ATC ATC CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE WHITE	STRAND DIA	MM	0.124	0.124
COLOR R, BE, Y R, BE, RR, Y COAXIAL CABLE ATC ATC CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE FOAM FOAM INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 0 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE	INSULATION	PVC	PVC	PVC
COAXIAL CABLE ATC ATC CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE WHITE	THICKNESS (NOMINAL)	MM	0.56	0.56
CONDUCTOR ATC ATC CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE WHITE	COLOR		R, BE, Y	R, BE, RR, Y
CONDUCTOR DIA MM/NOS 0.124/14 0.124/14 (NOMINAL)/NO. OF WIRE INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE WHITE	COAXIAL CABLE			
INSULATION HDPE FOAM FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC COLOR WHITE WHITE WHITE	CONDUCTOR		ATC	ATC
INSULATION HDPE FOAM THICKNESS MM 1.34 1.34 AL-FOIL AL-FOIL AL-FOIL CNOMINAL CNOMINA	CONDUCTOR DIA	MM/NOS	0.124/14	0.124/14
THICKNESS AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% BRAIDING ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE WHITE WHITE MIM WHITE WHITE	(NOMINAL)/NO. OF WIRE			
AL-FOIL THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE WHITE WHITE WHITE WHITE WHITE AL-FOIL O.052 O.062 OVERALL OUTER SHEATH PVC WHITE WHITE	INSULATION	HDPE	FOAM	FOAM
THICKNESS MM 0.052 0.052 (NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% 15/100% 15/100% BRAIDING ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC COLOR WHITE WHITE WHITE	THICKNESS	MM	1.34	1.34
(NOMINAL) WIDTH (NOMINAL) / OVERLAP MM/% ATC ATC ATC WIRE DIA (NOMINAL) BRAIDING COVERAGE % 60 OVERALL OUTER SHEATH PVC WHITE WHITE WHITE WHITE WHITE	AL-FOIL		AL-FOIL	AL-FOIL
WIDTH (NOMINAL) / OVERLAP MM/% ATC ATC ATC WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 OVERALL OUTER SHEATH PVC WHITE WHITE WHITE WHITE	THICKNESS	MM	0.052	0.052
BRAIDINGATCATCATCWIRE DIA (NOMINAL)MM0.120.12BRAIDING COVERAGE%6060OVERALL OUTER SHEATHPVCPVCPVCCOLORWHITEWHITEWHITE	(NOMINAL)			
WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 OVERALL OUTER SHEATH PVC PVC PVC PVC WHITE WHITE WHITE	WIDTH (NOMINAL) / OVERLAP	MM/%	15/100%	15/100%
WIRE DIA (NOMINAL) MM 0.12 0.12 BRAIDING COVERAGE % 60 OVERALL OUTER SHEATH PVC PVC PVC PVC WHITE WHITE WHITE	RPAIDING	ΛTC	∧T ∩	ΛTC
BRAIDING COVERAGE % 60 60 OVERALL OUTER SHEATH PVC PVC PVC COLOR WHITE WHITE WHITE				· · · -
OVERALL OUTER SHEATHPVCPVCPVCCOLORWHITEWHITEWHITE				
COLOR WHITE WHITE WHITE				





Client List





























































































BALAR MARKETING PVT. LTD.

Regd. Corporate Office: 217, Functional Industrial Estate,

Patparganj, New Delhi - 110 092, INDIA

Works: F-8, RIICO Industrial Area, Phase-I Bhiwadi-301019, Dist. Alwar, Raj. (INDIA)

Website: www.kundancab.in E-mail: sales@kundancab.in











TOLL FREE CUSTOMER SUPPORT

1800-270-6334







