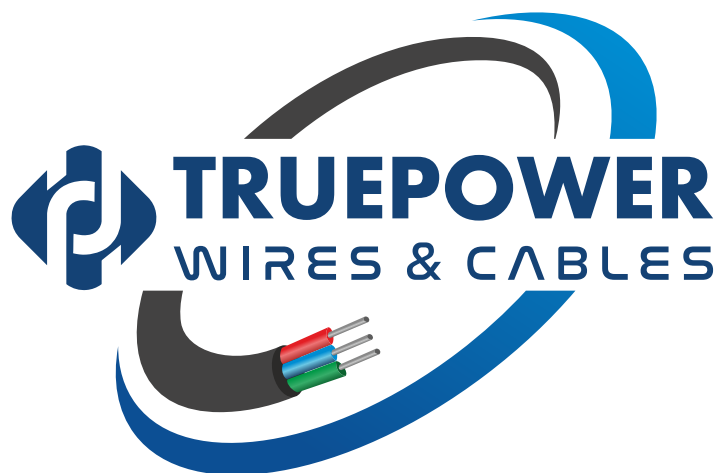




Wires that you can bank upon!

True power Wires & Cables Catalogue

About Us

“

I am honoured to serve as the Managing Director of our esteemed company True Power Limited. We are 15 years old, 2008 established, ISO Certified Electrical Manufacturer and Comprehensive Solution provider with 3 World-class manufacturing setups, 8 exciting product verticals (Chemical Earthing, Lightning Arresters, Solar Panels, HDG Mounting Structures for Solar Panels, Transformers, Wires & Cables, SPDs and Conductors).

Hari Om Tiwari
(Managing Director)

”



Flame Retardant Low Smoke & Halogen (FRLSH) PVC INSULATED INDUSTRIAL SINGLE CORE FLEXIBLE CABLES

FRLSH PVC compound Insulated Industrial Single Core Flexible Cables have a wide range of application in machine tools, appliances, control panels, machinery and industries of every nature. The conductors, drawn from 99.97% bright electrolytic grade copper with more than 100% conductivity, are annealed and bunched together. The conductors are insulated with a FRLSH PVC compound with high insulation resistance and dielectric strength, formulated and manufactured in house.

In case of Multi Core Cables, the insulated cores are laid up to form the core assembly. The inner cores are coded for ease of identification as per National/ International coding practices. The sheathing is provided with a specially formulated PVC compound to facilitate not only ease in stripping but also to withstand mechanical abrasion while in use. These FRLSH PVC compounds used for insulation and sheathing have high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures.

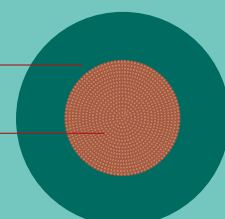
The Single Core and Multi Core sheathed Industrial Cables are manufactured as per IS 694:2010, in sizes from 0.5 sq. mm. to 70 sq. mm. in Single Core, and in sizes 0.5 sq. mm. to 2.5 sq. mm. up to 25 cores. These sizes carry the prestigious ISI mark and are duly approved by FIA/TAC. The rest of the sizes generally confirms to IS 694:2010. Cables as per BS 6004 and BS 6500 are also available for the export market.

Flame Retardant Low Smoke & Halogen (FRLSH) PVC INSULATED SINGLE CORE UN-SHEATHED/SHEATHED FLEXIBLE CABLES AS PER IS 694:2010 VOLTAGE GRADE UPTO 1100 VOLTS HAVING CLASS 5 CONDUCTOR

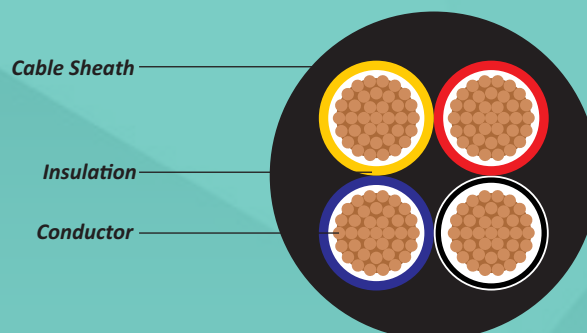
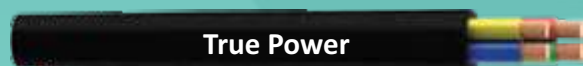
Nominal Cross Section Area of Conductor	Conductor as per IS 8130	Current Rating DC or AC	Insulation			
	Max. Resistance @ 20°C		Single Core Unsheathed		Single Core Sheathed	
			Nom.Thickness	Overall Diameter (Approx.)	Nom. Thickness	Overall Diameter (Approx.)
Sq.mm	Ω/km	AMP	MM	MM	MM	MM
0.5	39.00	4	0.6	2.00	0.9	4.00
0.75	26.00	7	0.6	2.30	0.9	4.25
1.0	19.50	12	0.6	2.45	0.9	4.85
1.5	13.30	15	0.6	2.75	0.9	5.15
2.5	7.98	20	0.7	3.50	1.0	5.90
4	4.95	27	0.8	4.10	1.0	6.70
6	3.30	35	0.8	4.75	1.1	7.35
10	1.91	46	1.0	6.00	1.3	8.60
16	1.21	62	1.0	7.10	1.4	9.90
25	0.780	80	1.2	8.80	1.4	11.60
35	0.554	102	1.2	10.10	1.6	13.30
50	.386	138	1.4	12.50	2.0	16.50
70	0.272	214	1.4	13.90	2.2	18.30

Insulation

Conductor



True Power Multicore Cable (IS 694:2010)



Application

These cables are designed for residential and commercial infrastructure. They serve as the connecting medium in power and control panels, cabinets & switchgears. They can also used for the purposes such as stationary and static appliances, motors and for other single phase connections.

Multicore: Flame Retardant Low Smoke Low Halogen (FR-LSH) cables are suitable for wiring in public places like schools, hospitals, theatres, etc.

Technical Data

Approvals : IS 694 marked, FIA/TAC

Conductor : Electrolytic grade annealed copper Class 5 as per IS 8130

Standard Cable Colour : Black, grey & white

Voltage Rating : Up to and including 1100V

Packing : Standard packing of 100 mtr. in coil. Longer length available on request.

Variants Available

Specifications
IS 694, IS 8130 Class 5, IS 5831 Type D for insulation & ST-3 & for sheathing
IS 694, IS 8130 Class 5, IS 5831 Type C for insulation & ST-2 for sheathing
IS 694, IS 8130 Class 5, IS 5831 Type D for insulation & ST-3 (FR) & for sheathing
IS 694, IS 8130 Class 5, IS 5831 Type C for insulation & ST-2 (FR) for sheathing
IS 694, IS 8130 Class 5, IS 5831 Type D for insulation & ST-3 (FR-LSH) for sheathing

Please complete the part numbers for these cables by adding the suffix (in place of 'xx') for the insulation colour required.

06 - green-yellow earth core. We offer green/yellow earth core as our standard product.

00 - without green-yellow earth core (available on request).

Kindly complete the part numbers for these cables by adding the suffix (in place of 'y') for the product type required.

1 - PVC 70°C, 2 - PVC FR 70°C, 3 - PVC HR 85°C, 4 - PVC HR 85°C + FR, 5 - PVC FR-LSH 70°C.

Kindly complete the part numbers for these cables by adding the suffix (in place of 'z') for the sheath colour required.

1 - black, 4 - grey, 5 - white.

True Power Multicore Cable (IS 694:2010)

No. of Cores	Nominal Cross Sectional Area (Sq. mm)	Nominal Insulation Thickness (mm)	Max. D.C. Conductor Resistance at 20°C (Ω/km)	Nominal Thickness of Sheath	Maximum Overall Dimensions (mm)M
1	0.5	0.6	39.0	0.9	4.3
2	0.5	0.6	39.0	0.9	6.9
3	0.5	0.6	39.0	0.9	7.3
4	0.5	0.6	39.0	0.9	8.0
1	0.75	0.6	26.0	0.9	4.5
2	0.75	0.6	26.0	0.9	7.3
3	0.75	0.6	26.0	0.9	7.7
4	0.75	0.6	26.0	0.9	8.4
1	1	0.6	19.5	0.9	4.7
2	1	0.6	19.5	0.9	7.6
3	1	0.6	19.5	0.9	8.1
4	1	0.6	19.5	0.9	8.8
1	1.5	0.6	13.3	0.9	5.4
2	1.5	0.6	13.3	0.9	8.9
3	1.5	0.6	13.3	0.9	9.4
4	1.5	0.6	13.3	1.0	10.4
1	2.5	0.70	7.98	1.0	6.2
2	2.5	0.70	7.98	1.0	10.3
3	2.5	0.70	7.98	1.0	10.9
4	2.5	0.70	7.98	1.0	12.0
1	4	0.80	4.95	1.0	6.8
2	4	0.80	4.95	1.0	11.6
3	4	0.80	4.95	1.0	12.4
4	4	0.80	4.95	1.0	13.6
1	6	0.80	3.30	1.1	7.5
2	6	0.80	3.30	1.1	13.0
3	6	0.80	3.30	1.2	13.8
4	6	0.80	3.30	1.2	15.5
1	10	1.00	1.9	1.3	9.4
2	10	1.00	1.9	1.3	16.5
3	10	1.00	1.9	1.4	17.7
4	10	1.00	1.9	1.4	19.5
1	16	1.00	1.2	1.4	10.9
2	16	1.00	1.21	1.4	19.4
3	16	1.00	1.21	1.4	20.6
4	16	1.00	1.21	1.4	23.0
1	25	1.20	0.780	1.4	13.6
2	25	1.20	0.780	1.4	23.8
3	25	1.20	0.780	1.5	25.6
4	25	1.20	0.780	1.6	28.5

True Power Flat Cable (IS 694)

CONSTRUCTION

Conductor	:	EC grade flexible copper
Insulation	:	PVC
Sheath	:	PVC

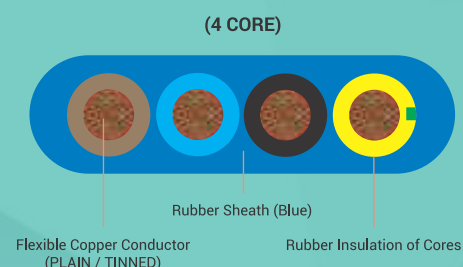
Generally conforms to IS 694.

APPLICATION

The PVC insulated and sheathed 3 core flat cables are used for giving electricals connection to the submersible pump motors. These are manufactured keeping in mind the severe, tough and difficult conditions in which they have to operate. The slot available in the tube well being narrow the shape of the cables has to be suited for such an application. These cables conform to and are marked IS 694:1990 upto 4.00 sq. mm. The sizes above 4.00 sq. mm cables generally conform to IS 694:1990

FEATURES

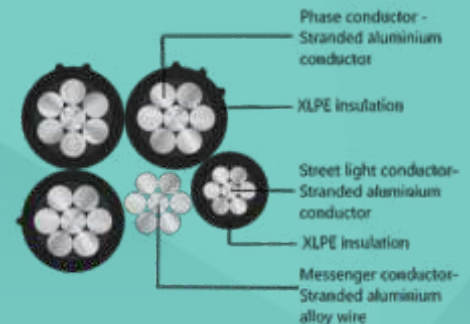
- Higher current carrying capacity
- Highly thermally stable insulation
- Longer Flex Life
- Excellent mechanical & electrical properties
- Operating Temp -15°C to +70°C / +90°C



PVC INSULATED & SHEATHED ANNEALED COPPER CONDUCTOR MULTI CORE CABLES

Size in sq. mm.	Size in mm.	Current Rating	Approximate overall diameter of cable in mm		
			2 core	3 core	4 core
0.50	16 / 0.20	4	6.20	6.60	7.20
0.75	24 / 0.20	7	6.80	7.20	7.90
1.00	32 / 0.20	11	7.00	7.50	8.10
1.50	48 / 0.20	14	7.60	8.10	9.00
2.50	80 / 0.20	19	9.00	9.60	10.50
4.00	56 / 0.30	26	10.60	11.30	12.40
6.00	84 / 0.30	33	12.60	13.40	15.20
10.00	140 / 0.30	45	16.00	17.00	18.80
16.00	226 / 0.30	60	18.80	20.10	22.20
25.00	354 / 0.30	75	24.00	25.60	28.20

True Power Aerial Bunched Cable (IS 14255) Overhead Power Distribution Cable, 1100 V



Application

True Power Aerial Bunched Cable is recommended as overhead distribution feeder in rural or residential areas and hill area where underground installation is not possible.

Voltage Rating

1100 V

Operation Temperature

Max.: 90°C

Configuration

Single phase or three phase system cable with or without street light conductor

Construction

- **Phase conductor**
 - Stranded compacted aluminium conductor to IS 8130, Class 2
 - Insulated with in-housed developed compounded XLPE (Cross linked polyethylene)
- **Messenger conductor**
 - Stranded circular or compacted heat-treated aluminium-magnesium alloy wire to IS 398 (part 4)
 - Insulated with in-housed developed compounded XLPE (if required)
- **Streetlight conductor**
 - Stranded aluminium conductor to IS 8130, class 2
 - Insulated with in-housed developed compounded XLPE

Core Identification

Phase conductor	one, two or three ridges
Neutral conductor	four ridges
Street lighting & Messenger (if insulated)	No identification mark

Test Voltage

Conductor resistance	IS 8130
Elongation test	IS 5831
Tensile strength	IS 5831

Voltage Rating

1100 V

Bending Radius

10 x Overall diameter

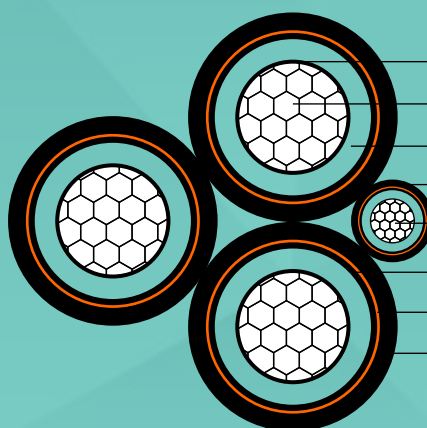
Standard and References

IS 8130:2013
IS 398 (Part 4)
IS 5831
IS 7098-2
IS 14255:1995

True Power Aerial Bunched Cable (IS 14255) Overhead Power Distribution Cable, 1100 V

Phase Conductor + Messenger (Bare)					
Construction (Phase + Messenger) $n \times \text{mm}^2$	Insulation thickness mm	Phase conductor Overall diameter mm	messenger Overall diameter mm	Weight (Approx.)	Minimum Breaking load of messenger KN
3 x 25 + 1 x 25	2.20	14.42	6.42	802	7.7
3 x 35 + 1 x 35	2.20	15.56	7.60	965	10.8
3 x 50 + 1 x 50	2.20	17.15	9.11	1208	15.5
3 x 70 + 1 x 50	2.20	19.20	9.11	1508	15.5
3 x 95 + 1 x 55	2.20	21.00	9.53	1821	17.0
3 x 120 + 1 x 70	2.20	22.61	10.77	2152	21.6

Phase Conductor + Messenger (Insulated)						
Construction (Phase + Messenger) $n \times \text{mm}^2$	Insulation thickness mm		Phase conductor Overall diameter mm	messenger Overall diameter mm	Weight (Approx.)	Minimum Breaking load of messenger KN
	Phase mm	Messenger mm				
3 x 25 + 1 x 25	2.20	2.20	14.4	10.8	866	7.7
3 x 35 + 1 x 35	2.20	2.20	15.6	12.0	1038	10.8
3 x 50 + 1 x 50	2.20	2.20	17.2	13.5	1292	15.5
3 x 70 + 1 x 50	2.20	2.20	19.2	13.5	1593	15.5
3 x 95 + 1 x 55	2.20	2.20	21.0	13.9	1909	17.0
3 x 120 + 1 x 70	2.20	2.20	22.6	15.2	2249	21.6



- Conductor screen
- Aluminum conductor
- XLPE insulation
- HDPE sheath
- Galvanized Steel wire
- Insulation screen
- Copper tape screen
- HDPE sheath

True Power Solar Cable (IS 17293:2020) TYPE 1 - Dimensions

Solar DC Cables from PV Module to Array Junction Box
(as per TUV Specifications-2 Pfg 1169/08.2007)

Single Core Size in sq. mm	Max. Conductor Diameter	XL-LSOH Insulation Thickness-Nominal in mm	XL-LSOH Sheathing Thickness-Nominal in mm	Overall Dia. Nominal in mm
1.5	0.26	0.5	0.5	4.10 +/-0.5
2.5	0.26	0.5	0.5	4.5 +/-0.5
4	0.31	0.5	0.5	5.1 +/-0.5
6	0.31	0.5	0.5	6.1 +/-0.5



True Power Solar Cable (IS 17293:2020) TYPE 2 - Dimensions

Solar DC Cables from PV Module to Array Junction Box
(as per IS 694 & IS 1554 Part I guidelines)

Single Core Size in sq. mm	Max. Conductor Diameter	HR 105°C PVC Insulation Thickness-Nominal in mm	UV HR 105°C PVC Sheathing Thickness-Nominal in mm	Overall Dia. Nominal in mm
1.5	0.26	0.6	0.9	5.0 +/-0.5
2.5	0.26	0.7	0.9	5.5 +/-0.5
4	0.31	0.8	0.9	6.5 +/-0.5
6	0.31	0.9	0.9	7.0 +/-0.5



True Power Solar Cable (IS 17293:2020) TYPE 3 - Dimensions

Solar DC Cables from PV Module to Array Junction Box
(as per IS 694 & IS 1554 Part I guidelines)

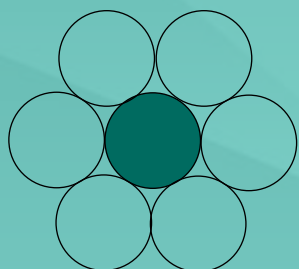
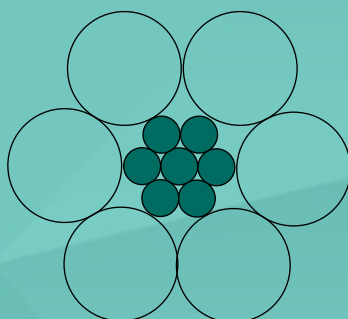
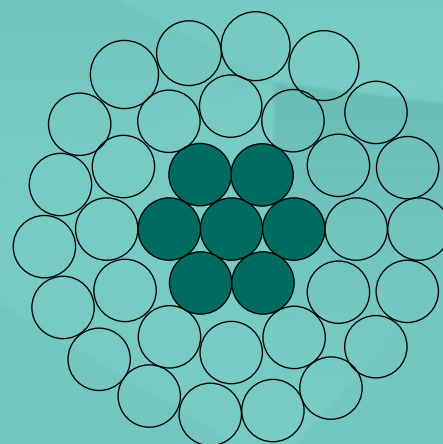
Single Core Size in sq. mm	Max. Conductor Diameter	UV-PVC-ST2 Sheathing Thickness-Nominal in mm	UV HR 105°C PVC Sheathing Thickness-Nominal in mm	Overall Dia. Nominal in mm
1.5	0.26	0.7	0.9	5.0 +/-0.5
2.5	0.26	0.7	0.9	5.5 +/-0.5
4	0.31	0.7	0.9	6.0 +/-0.5
6	0.31	0.7	0.9	6.5 +/-0.5



True Power Aluminium Conductors Steel Reinforced (ACSR)

All Aluminium Conductors Steel Reinforced (ACSR) consists of stranded or solid steel core enclosed by strands of aluminum. These made available in broad range of steels varying from as low as 6% to as high as 40 %. The superior strength of ACSR is ideal for overhead ground wires, river crossings, installations involving extra long span. Manufactured using best quality materials, these conductors ensure high tensile strength.

Code Word	Nominal Aluminium Area Sq mm.	Stranding Nos./mm		Sectional Area Sq.mm		Approx Overall Dia mm	Approx Weight kg/km			Calculated Resistance at 20°C(Max.) Ohms/km	Approx Calc. Breaking Load (KN)	Copper Equivalent Sq.mm.
		Alum.	Steel	Alum.	ACSR	ACSR	Total	Alum.	Steel	Cond.	Cond.	
Weasel	30	6/2.59	1/2.59	31.61	36.88	7.77	128	87	41	0.9291	11.12	19
Rabbit	50	6/3.35	1/3.35	52.88	61.70	10.05	214	145	69	0.5524	18.25	32
Raccoon	80	6/4.09	1/4.09	78.83	91.97	12.27	319	217	102	0.3712	26.91	48
Dog	100	6/4.72	7/1.57	105.00	118.50	14.15	394	288	106	0.2792	32.41	64
Panther	200	30/3.00	7/3.00	212.10	61.70	21.00	974	587	387	0.1391	89.67	129

**6 Al/1 St.****6 Al/7 St.****30 Al/1 St.**

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