

POWERLINE

Wires | Cables | Accessories

SUPREME
www.supreme.in
POWER & CONTROL CONSTRUCTION

MESCAB[®]
WIRES & CABLES



Ultimate_{resistance to the}
fire invasion

Power & Control Cables



OUR VISION

The Company's core objective is to provide better value to its customers on the price-quality matrix. At **POWERLINE**, we starve for having customers' success and not only customers' satisfaction.

To consolidate the company's position as a leading manufacturer of wires and cables in national and international market, we set forth to become responsive, flexible, innovative and progressive and our corporate strategies to achieve the above objectives are :

- To maintain International Quality Standards by embedding the best practices in all systems and processes.
- To develop a special relationship with customers by providing prompt technical support & services.
- Continuous efforts in developing cost effective, reliable and efficient technologies for Indian and overseas customers.
- To develop an agile and effective organisation which adopts and adapts to the changes in business environment by continuously assessing the opportunities and encashing them and evaluating the threats to mitigate them.

We are actively involved in collaborating with our customers, agents, dealers, allies, and industry stalwarts to ensure that the cable industry continuous to excel and grow.

FLOW

The values that empower the flow of energy in the work process are evident in the unit of **POWERLINE**. It is one of the best fully integrated Workflow- Starting from raw materials to the finished products.



OUR PRODUCTS



FR Cables



FR - LSH Cables



ZHFR Cables



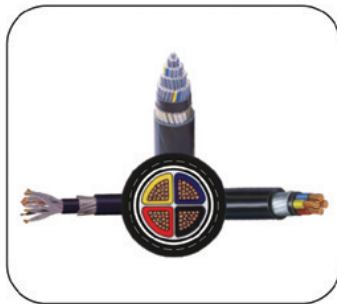
MULTICORE Cables



SUBMERSIBLE Cables



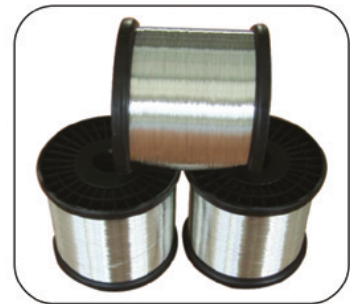
PVC INDUSTRIAL Cable



ARMOURED cables



Bare Copper Conductors



Tinned Copper Conductors



ABOUT US

POWERLINE Cables is eastern India's largest fully integrated cable company with a dominant presence in the wire & cable segments. We have focused on world class infrastructure, best in class technology, uncompromising quality standards and dynamic product innovation.

The company had started its unit at NH. 6 West Bengal (India) in the year 2004 headed by reputed professional management. Through the years of growth, **POWERLINE** has transformed itself into a multidimensional company offering a comprehensive range of quality products, efficient customer service and a wide distribution network. We are a marketing powerhouse with its distributors and representative all over India.

The Company is equipped with modern & sophisticated machineries of different capacities per shift and is capable of producing different size and types simultaneously. The production process is carefully monitored at every step ranging from pooling raw materials from established industries leader, disposing off sub standards material to dispatch of final products. A well equipped raw material testing laboratory and final inspection room is available for testing raw material and finished cable according to rigid standards. Since its inception, the Company has played a significant role in the progress of the cable industry in Eastern India.

Being ISO 9001 : 2008 certified, the company maintains the highest standards when it comes to quality control, adhering to the Bureau of Indian Standards. Our plant is a continuously upgraded to latest technology for offering quality product at competitive prices. The safety records of the plant are excellent. **POWERLINE** Cables are a notch above with great patronization from domestic and industrial customers including OEMs.



ARMoured Cables

POWERLINE manufactures wide range of LT PVC / XLPE Power & Control Cables that are widely used in various transmission applications. The Cables are manufactured with extrusion process and provided with Normal PVC / FR Outer Sheath / FRLS Outer Sheath. XLPE Cables are manufactured under advanced manufacturing testing facilities. The cables are type tested and routine tested in accordance with IS : 7098 (Part – 2) 1985 / Relevant Standard. To ensure reliability of our cables, our range is precision engineered to take up extreme load fluctuations in varying voltage situation.

Insulation

Cross linked polyethylene (XLPE)

Conductor

Aluminium / Annealed plain copper solid* / stranded conductor conform to BS 6360 and IEC 60228 Class 2 (Circular / Sector shaped)

Armour

For Single Core - Aluminium round wire / flat wire. For Multicore - Galvanised Steel round wire / flat wire / tape.

Outer Sheath

Extruded PVC / Special PVC compound such as Flame Retardant (FR), Flame Retardant Low Smoke (FRLS), Zero Halogen Low Smoke can be used for outer sheath to suit a variety of environment and fire risk conditions. Flammability test confirms to IEC 332. For installation where fire and associated problems such as emission of smoke and toxic fumes offer a serious potential threat, special LSF (Low smoke & fumes) compound can be provided. LSF compound is Halogen free (Fluorine, Chlorine, Bromine) when tested as per BS 6425 (Pt 1) & IEC 60754 (Pt 1). The acid gas evolved during combustion is less than 0.5% by weight of material.

Advantages of XLPE Cables in Comparison of PVC Cables :

- | Higher conductor rating i.e. 90°C as compared 70°C of PVC.
- | Longer life as compared to conventional PVC Cables.
- | Higher overload capacity than PVC Cables (upto 60%).
- | Higher short circuit rating approx. 1.2 times that of PVC.
- | Better electrical, mechanical and thermal properties.
- | High Corrosion resistance in polluted atmosphere.
- | The moisture resistance of LT-XLPE Cables is nearly 100 times that of PVC.
- | Better properties of resistance to chemical and corrosive gases.
- | LT-XLPE Cables have Low dielectric losses.
- | Joining of LT-XLPE Cables is easier and quicker.
- | XLPE Cables withstands smaller radius bending and is lighter in weight, allowing easy and reliable installation.
- | Low installation cost because of lightweight dimensions.

Duration of short ckt. in sec	1 Cycle = 0.02 s	2 Cycles	5 Cycles	10 Cycles	25 Cycles	50 Cycles	2 Sec.	3 Sec.	4 Sec.	5 Sec.
Short ckt. Constant per unit area	536	378	239	169	107	75.5	53	43.6	37.8	34

Standards	BS 5467, IEC 60502-1 & VDE 0276
Operating Temperature	90°C
Short Circuit Temperature	250°C
Working Voltage	600 / 1000 Volts
Test Voltage	3.5 KV RMS for 5 minutes

Application

| Indoors or Outdoors in cable ducts, cable trays, conduits or underground locations under mechanical stresses in power and switching stations. | Local distribution systems, Industrial and Commercial units for basic power & lighting purpose.



ARMoured Cables

POWERLINE 1.1 KV grade COPPER CONDUCTOR (SOLID), XLPE insulated armoured / unarmoured PVC outer sheath control / power cable conforming to IS : 7098 Part-1/1988 with latest amendments.

WEIGHT & DIMENSIONS

Nominal Cross Sectional Area	Number of Cores	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable			Current Rating		*Normal Delivery Length		
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable		In Ground	In Air
Sq.mm.	Core	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
1.5	2	0.7	0.3	1.8	10.0	140	-NA-	-NA-	-NA-	-NA-	1.4	1.24	12.5	370	33	29	1000
1.5	3	0.7	0.3	1.8	10.5	160	-NA-	-NA-	-NA-	-NA-	1.4	1.24	13.0	390	25	22	1000
1.5	4	0.7	0.3	1.8	11.5	200	-NA-	-NA-	-NA-	-NA-	1.4	1.24	13.5	415	25	22	1000
1.5	5	0.7	0.3	1.8	12.5	225	-NA-	-NA-	-NA-	-NA-	1.4	1.24	14.5	465	24	21	1000
1.5	6	0.7	0.3	1.8	13.5	250	-NA-	-NA-	-NA-	-NA-	1.4	1.24	15.5	500	22	19	1000
1.5	7	0.7	0.3	1.8	13.5	260	-NA-	-NA-	-NA-	-NA-	1.4	1.24	15.5	520	21	18	1000
1.5	10	0.7	0.3	1.8	17.0	340	-NA-	-NA-	-NA-	-NA-	1.4	1.24	18.5	655	18	16	1000
1.5	12	0.7	0.3	1.8	17.5	390	-NA-	-NA-	-NA-	-NA-	1.4	1.24	19.0	720	17	15	1000
1.5	14	0.7	0.3	1.8	18.0	430	-NA-	-NA-	-NA-	-NA-	1.4	1.40	20.0	825	16	14	1000
1.5	16	0.7	0.3	1.8	18.5	475	4x0.80	1.40	19.0	750	1.6	1.40	21.0	925	16	14	1000
1.5	19	0.7	0.3	1.8	19.5	540	4x0.80	1.40	20.0	815	1.6	1.40	22.0	1010	15	13	1000
1.5	24	0.7	0.3	2.0	22.5	665	4x0.80	1.40	23.0	1000	1.6	1.40	25.0	1250	13	12	500
1.5	30	0.7	0.3	2.0	23.5	820	4x0.80	1.40	24.0	1125	1.6	1.40	26.0	1400	12	11	500
1.5	37	0.7	0.3	2.0	25.0	975	4x0.80	1.40	26.0	1325	1.6	1.40	28.0	1550	11	10	500
2.5	2	0.7	0.3	1.8	11.5	185	-NA-	-NA-	-NA-	-NA-	1.4	1.24	13.5	380	39	32	1000
2.5	3	0.7	0.3	1.8	12.0	220	-NA-	-NA-	-NA-	-NA-	1.4	1.24	14.0	425	34	30	1000
2.5	4	0.7	0.3	1.8	13.0	260	-NA-	-NA-	-NA-	-NA-	1.4	1.24	14.5	500	34	30	1000
2.5	5	0.7	0.3	1.8	14.0	300	-NA-	-NA-	-NA-	-NA-	1.4	1.24	15.5	525	31	28	1000
2.5	6	0.7	0.3	1.8	15.0	340	-NA-	-NA-	-NA-	-NA-	1.4	1.24	16.5	600	29	26	1000
2.5	7	0.7	0.3	1.8	15.0	360	-NA-	-NA-	-NA-	-NA-	1.4	1.24	16.5	625	27	25	1000
2.5	10	0.7	0.3	1.8	17.5	475	4x0.80	1.24	19.0	700	1.6	1.40	21.0	875	24	21	1000
2.5	12	0.7	0.3	1.8	18.0	550	4x0.80	1.40	19.5	760	1.6	1.40	21.5	975	22	20	1000
2.5	14	0.7	0.3	1.8	19.0	625	4x0.80	1.40	20.0	850	1.6	1.40	22.0	1050	21	19	1000
2.5	16	0.7	0.3	2.0	20.5	680	4x0.80	1.40	21.5	920	1.6	1.40	23.5	1160	20	18	1000
2.5	19	0.7	0.3	2.0	21.5	770	4x0.80	1.40	22.5	1025	1.6	1.40	24.5	1250	19	17	1000
2.5	24	0.7	0.3	2.0	24.5	950	4x0.80	1.40	25.5	1250	1.6	1.40	27.5	1500	17	16	500
2.5	30	0.7	0.3	2.0	26.0	1150	4x0.80	1.40	27.5	1550	1.6	1.40	29.0	1760	16	14	500
2.5	37	0.7	0.3	2.0	28.0	1350	4x0.80	1.40	29.5	1710	1.6	1.56	31.5	2080	15	13	500

Special construction on request :

Round wire armoured | Stranding | Tinning | Extruded PVC inner sheath | HR PVC Insulation | FRLS Inner / Outer sheath

PVC / XLPE INSULATED POWER & CONTROL CABLE



POWERLINE single core **ALUMINIUM CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988**

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Nominal Thickness of XLPE Insulation for Armoured Cable	Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating		*Normal Delivery Length	
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable		Nominal Dimension of Aluminium Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of Aluminium Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air		
Sq.mm.	Ø	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.7	NA	1.8	7.5	60	—	—	—	—	—	—	—	—	—	—	36	31	1000
6	Solid	0.7	NA	1.8	8.0	70	—	—	—	—	—	—	—	—	—	—	44	39	1000
10	Solid	0.7	NA	1.8	9.0	80	1.0	—	—	—	—	—	—	—	—	—	59	53	1000
10	Stranded	0.7	NA	1.8	9.5	90	1.0	—	—	—	—	—	—	—	—	—	59	53	1000
16	Stranded	0.7	NA	1.8	10.0	115	1.0	—	—	—	—	—	1.4	1.24	13.0	220	76	73	1000
25	Stranded	0.9	NA	1.8	12.0	155	1.2	—	—	—	—	—	1.4	1.24	14.0	260	96	98	1000
35	Stranded	0.9	NA	1.8	13.0	180	1.2	—	—	—	—	—	1.4	1.24	15.0	310	114	121	1000
50	Stranded	1.0	NA	1.8	14.0	240	1.3	—	—	—	—	—	1.4	1.24	17.0	380	135	150	1000
70	Stranded	1.1	NA	1.8	16.0	310	1.4	—	—	—	—	—	1.4	1.24	19.0	480	166	187	1000
95	Stranded	1.1	NA	1.8	17.5	385	1.4	4 × 0.80	1.40	21.0	560	1.6	1.40	22.0	22.0	640	198	230	1000
120	Stranded	1.2	NA	1.8	19.0	470	1.5	4 × 0.80	1.40	22.0	660	1.6	1.40	23.5	23.5	745	225	268	1000

POWERLINE single core **COPPER CONDUCTOR, XLPE insulated, unarmoured & armoured cable, conforming to IS:7098 Part-1/1988.**

4	Solid	0.7	NA	1.8	7.5	91	—	—	—	—	—	—	—	—	47	42	1000
6	Solid	0.7	NA	1.8	8.0	115	—	—	—	—	—	—	—	—	59	53	1000
10	Stranded	0.7	NA	1.8	9.5	170	1.0	—	—	—	—	1.4	1.24	12.0	78	72	1000
16	Stranded	0.7	NA	1.8	10.0	220	1.0	—	—	—	—	1.4	1.24	13.0	102	98	1000
25	Stranded	0.9	NA	1.8	12.0	325	1.2	—	—	—	—	1.4	1.24	14.0	132	132	1000
35	Stranded	0.9	NA	1.8	13.0	420	1.2	—	—	—	—	1.4	1.24	16.0	156	156	1000
50	Stranded	1.0	NA	1.8	14.0	550	1.3	—	—	—	—	1.4	1.24	17.0	186	198	1000
70	Stranded	1.1	NA	1.8	16.0	750	1.4	—	—	—	—	1.4	1.24	19.0	228	246	1000
95	Stranded	1.1	NA	1.8	17.5	1010	1.4	4 × 0.80	1.40	21.0	1150	1.6	1.40	22.0	264	294	1000
120	Stranded	1.2	NA	1.8	19.0	1250	1.5	4 × 0.80	1.40	22.0	1400	1.6	1.40	23.5	300	336	1000

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



ARMoured Cables

POWERLINE

Wires | Cables | Accessories

POWERLINE two core ALUMINIUM CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				Current Rating		*Normal Delivery Length	
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air
Sq.mm.	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid	0.7	0.3	1.8	12.5	140	NA	NA	NA	NA	1.40	1.24	14.5	400	40	34	1000
6	Solid	0.7	0.3	1.8	13.5	170	NA	NA	NA	NA	1.40	1.24	15.5	470	50	44	1000
10	Solid	0.7	0.3	1.8	15.0	205	NA	NA	NA	NA	1.40	1.24	17.0	545	69	59	1000
10	Stranded	0.7	0.3	1.8	16.0	225	NA	NA	NA	NA	1.40	1.24	18.0	565	69	59	1000
16	Stranded	0.7	0.3	1.8	14.0	225	NA	NA	NA	NA	1.40	1.40	17.0	570	88	74	1000
25	Stranded	0.9	0.3	2.0	17.0	330	4 × 0.8	1.40	18.5	600	1.60	1.40	20.0	790	112	98	1000
35	Stranded	0.9	0.3	2.0	19.0	410	4 × 0.8	1.40	20.0	690	1.60	1.40	22.0	910	138	124	1000
50	Stranded	1.0	0.3	2.0	21.0	510	4 × 0.8	1.40	22.5	820	1.60	1.40	24.0	1050	169	156	1000
70	Stranded	1.1	0.3	2.0	23.0	675	4 × 0.8	1.56	22.5	1050	1.60	1.56	27.0	1325	200	188	1000
95	Stranded	1.1	0.4	2.2	26.5	900	4 × 0.8	1.56	28.0	1300	2.00	1.56	30.5	1750	238	231	1000
120	Stranded	1.2	0.4	2.2	28.5	1050	4 × 0.8	1.56	30.5	1500	2.00	1.56	33.0	2000	262	262	500

POWERLINE two core COPPER CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988

4	Solid	0.7	0.3	1.8	12.5	165	NA	NA	NA	NA	1.4	1.24	14.5	480	51	44	1000
6	Solid	0.7	0.3	1.8	13.5	210	NA	NA	NA	NA	1.4	1.24	15.5	564	63	56	1000
10	Stranded	0.7	0.3	1.8	16.0	300	NA	NA	NA	NA	1.4	1.24	18.0	740	88	75	1000
16	Stranded	0.7	0.3	1.8	14.0	425	NA	NA	NA	NA	1.4	1.40	17.0	770	113	98	1000
25	Stranded	0.9	0.3	2.0	17.0	640	4 x 0.8	1.40	18.5	910	1.6	1.40	20.0	1100	144	131	1000
35	Stranded	0.9	0.3	2.0	19.0	840	4 x 0.8	1.40	20.0	1025	1.6	1.40	22.0	1350	175	150	1000
50	Stranded	1.0	0.3	2.0	21.0	1120	4 x 0.8	1.40	22.5	1435	1.6	1.40	24.0	1670	206	194	1000
70	Stranded	1.1	0.3	2.0	23.0	1540	4 x 0.8	1.56	25.5	1910	1.6	1.56	27.0	2200	256	244	1000
95	Stranded	1.1	0.4	2.2	26.5	2075	4 x 0.8	1.56	28.0	2475	2.0	1.56	30.5	2925	300	288	500
120	Stranded	1.2	0.4	2.2	28.5	2535	4 x 0.8	1.56	30.5	2985	2.0	1.56	33.0	3485	344	331	500

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is $\pm 5\%$. Length more than normal as per customer request.



PVC / XLPE INSULATED POWER CABLE

ARMoured Cables

POWERLINE three core ALUMINIUM CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				Current Rating		*Normal Delivery Length	
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air
Sq.mm.	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid ○	0.7	0.3	1.8	14.0	140	NA	NA	NA	NA	1.40	1.24	15.0	460	34	31	1000
6	Solid ○	0.7	0.3	1.8	15.5	170	NA	NA	NA	NA	1.40	1.24	16.0	530	43	50	1000
10	Solid ○	0.7	0.3	1.8	17.0	220	NA	NA	NA	NA	1.40	1.24	18.0	640	57	67	1000
10	Stranded ○	0.7	0.3	1.8	18.0	230	NA	NA	NA	NA	1.40	1.24	19.0	680	57	67	1000
16	Stranded △	0.7	0.3	1.8	18.0	310	4 × 0.8	1.24	18.5	530	1.60	1.40	21.0	750	73	70	1000
25	Stranded △	0.9	0.3	2.0	20.0	460	4 × 0.8	1.40	20.5	770	1.60	1.40	23.0	990	94	96	1000
35	Stranded △	0.9	0.3	2.0	21.5	575	4 × 0.8	1.40	23.0	900	1.60	1.40	25.0	1150	113	117	1000
50	Stranded △	1.0	0.3	2.0	24.5	700	4 × 0.8	1.40	25.5	1100	1.60	1.56	27.5	1400	133	142	1000
70	Stranded △	1.1	0.4	2.2	29.0	990	4 × 0.8	1.56	30.0	1425	2.00	1.56	32.0	1950	164	179	500
95	Stranded △	1.1	0.4	2.2	32.5	1250	4 × 0.8	1.56	33.5	1735	2.00	1.56	37.5	2300	196	221	500
120	Stranded △	1.2	0.4	2.2	34.5	1525	4 × 0.8	1.56	35.5	2050	2.00	1.72	39.5	2700	223	257	500

POWERLINE three core COPPER CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988

4	Solid	0.7	0.3	1.8	14.0	210	NA	NA	NA	NA	1.40	1.24	15.0	530	43	36	1000
6	Solid	0.7	0.3	1.8	15.5	280	NA	NA	NA	NA	1.40	1.24	16.0	640	54	47	1000
10	Stranded	0.7	0.3	1.8	18.0	415	NA	NA	NA	NA	1.40	1.24	19.0	865	72	62	1000
16	Stranded	0.7	0.3	1.8	18.0	425	4 x 0.8	1.24	18.5	825	1.60	1.40	21.0	1040	92	79	1000
25	Stranded	0.9	0.3	2.0	20.0	920	4 x 0.8	1.40	20.5	1235	1.60	1.40	23.0	1450	119	108	1000
35	Stranded	0.9	0.3	2.0	21.5	1225	4 x 0.8	1.40	23.0	1550	1.60	1.40	25.0	1800	144	132	1000
50	Stranded	1.0	0.3	2.0	24.5	1620	4 x 0.8	1.40	25.5	2020	1.60	1.56	27.5	2320	174	162	1000
70	Stranded	1.1	0.4	2.2	29.0	2290	4 x 0.8	1.56	30.0	2720	2.00	1.56	32.0	3250	210	198	500
95	Stranded	1.1	0.4	2.2	32.5	3010	4 x 0.8	1.56	33.5	3500	2.00	1.56	37.5	4060	252	240	500
120	Stranded	1.2	0.4	2.2	34.5	3750	4 x 0.8	1.56	35.5	4320	2.00	1.72	39.5	4920	288	276	500

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is $\pm 5\%$. Length more than normal as per customer request.



ARMoured Cables

POWERLINE three and half core **ALUMINIUM CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988**

650/1100 VOLTS

WEIGHT & DIMENSIONS

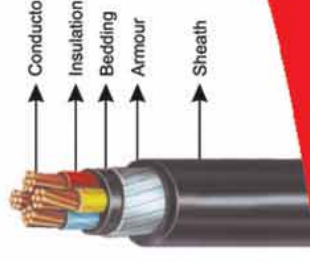
Nominal Size of Conductors	Form of Conductor Shaped	Nominal Thickness of XLPE Insulation Main / Neutral		Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable				Round Wire Armoured Cable				Current Rating		*Normal Delivery Length
		mm	mm		Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground	In Air	
Sq.mm.	mm			mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
25/16	Stranded Δ	0.9	0.7	0.3	2.0	22.0	525	4 × 0.80	1.40	23.0	850	1.60	1.40	25.5	1050	94	96	1000
35/16	Stranded Δ	0.9	0.7	0.3	2.0	24.0	625	4 × 0.80	1.40	25.0	980	1.60	1.40	26.5	1200	113	117	1000
50/25	Stranded Δ	1.0	0.9	0.3	2.0	27.5	800	4 × 0.80	1.40	28.0	1240	1.60	1.56	29.5	1500	133	142	1000
70/35	Stranded Δ	1.1	0.9	0.4	2.2	31.0	1100	4 × 0.80	1.56	32.0	1600	2.00	1.56	34.0	2050	164	179	500
95/50	Stranded Δ	1.1	1.0	0.4	2.2	35.0	1400	4 × 0.80	1.56	36.0	1900	2.00	1.56	38.0	2450	196	221	500
120/70	Stranded Δ	1.2	1.1	0.4	2.2	37.5	1650	4 × 0.80	1.72	39.0	2300	2.00	1.72	41.0	2800	223	257	500

POWERLINE three and half core **COPPER CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part - 1/1988**

25/16	Stranded Δ	0.9	0.7	0.3	2.0	22.0	1080	4 × 0.80	1.40	23.0	1410	1.60	1.40	24.0	1610	119	108	1000
35/16	Stranded Δ	0.9	0.7	0.3	2.0	24.0	1370	4 × 0.80	1.40	25.0	1725	1.60	1.40	26.0	1950	144	132	1000
50/25	Stranded Δ	1.0	0.9	0.3	2.0	27.5	1875	4 × 0.80	1.40	28.0	2325	1.60	1.56	29.0	2580	174	162	1000
70/35	Stranded Δ	1.1	0.9	0.4	2.2	31.0	2620	4 × 0.80	1.56	32.0	3110	2.00	1.56	34.0	3560	210	198	500
95/50	Stranded Δ	1.1	1.0	0.4	2.2	35.0	3475	4 × 0.80	1.56	36.0	4975	2.00	1.56	37.5	4525	252	240	500
120/70	Stranded Δ	1.2	1.1	0.4	2.2	39.0	4315	4 × 0.80	1.72	40.0	4960	2.00	1.72	41.0	5460	288	276	500

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



ARMoured Cables

POWERLINE four core **ALUMINIUM CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988**

650/1100 VOLTS

WEIGHT & DIMENSIONS

Nominal Size of Conductor	Form of Conductor Circular Shaped	Nominal Thickness of XLPE Insulation	Minimum Thickness of PVC Inner Sheath	Unarmoured Cable			Formed Wire / Strip Armoured Cable			Round Wire Armoured Cable				Current Rating		*Normal Delivery Length		
				Nominal Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Flat Strip	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	Nominal Dimension of GI Round Wire	Minimum Thickness of PVC Outer Sheath	Approx. Overall Diameter of Cable	Approx. Weight of Cable	In Ground		In Air	
Sq.mm.	mm	mm	mm	mm	mm	Kgs./Km	mm	mm	mm	mm	mm	mm	mm	mm	Kgs./Km	Amps.	Amps.	Mtrs.
4	Solid o	0.7	0.3	1.8	15.0	160	NA	NA	NA	NA	1.40	1.24	16.5	510	34	31	1000	
6	Solid o	0.7	0.3	1.8	16.5	200	NA	NA	NA	NA	1.40	1.24	17.5	580	43	50	1000	
10	Solid o	0.7	0.3	1.8	18.0	250	NA	NA	NA	NA	1.40	1.40	19.0	700	57	67	1000	
10	Stranded o	0.7	0.3	1.8	18.5	260	NA	NA	NA	NA	1.40	1.40	20.5	765	57	67	1000	
16	Stranded Δ	0.7	0.3	1.8	17.5	350	4 × 0.8	1.40	20.0	715	1.60	1.40	21.0	895	73	70	1000	
25	Stranded Δ	0.9	0.3	2.0	21.0	550	4 × 0.8	1.40	23.0	940	1.60	1.40	25.0	1150	94	96	500	
35	Stranded Δ	0.9	0.3	2.0	23.5	680	4 × 0.8	1.40	25.0	1050	1.60	1.40	26.5	1325	113	117	500	
50	Stranded Δ	1.0	0.3	2.0	26.0	875	4 × 0.8	1.56	28.0	1280	1.60	1.56	29.5	1640	133	142	500	
70	Stranded Δ	1.1	0.4	2.2	30.5	1200	4 × 0.8	1.56	32.0	1700	2.00	1.56	34.0	2175	164	179	500	
95	Stranded Δ	1.1	0.4	2.2	33.5	1530	4 × 0.8	1.56	35.0	2100	2.00	1.72	38.0	2775	196	221	500	
120	Stranded Δ	1.2	0.5	2.4	37.5	1850	4 × 0.8	1.72	39.0	2600	2.00	1.88	42.0	3250	223	257	500	

POWERLINE four core **COPPER CONDUCTOR, XLPE Insulated, unarmoured & armoured cable conforming to IS 7098 Part-1/1988**

4	Solid o	0.7	0.3	1.8	15.0	260	NA	NA	NA	NA	1.40	1.24	16.5	610	43	36	1000
6	Solid o	0.7	0.3	1.8	16.5	350	NA	NA	NA	NA	1.40	1.24	17.5	730	54	47	1000
10	Stranded o	0.7	0.3	1.8	18.5	510	NA	NA	NA	NA	1.40	1.40	20.5	1010	72	62	1000
16	Stranded Δ	0.7	0.3	1.8	17.5	750	4 × 0.8	1.40	20.0	1050	1.60	1.40	21.0	1275	92	79	1000
25	Stranded Δ	0.9	0.3	2.0	21.0	1170	4 × 0.8	1.40	23.0	1520	1.60	1.40	25.0	1770	119	108	500
35	Stranded Δ	0.9	0.3	2.0	23.5	1550	4 × 0.8	1.40	25.0	1915	1.60	1.40	26.5	2190	144	132	500
50	Stranded Δ	1.0	0.3	2.0	26.0	2110	4 × 0.8	1.56	28.0	2510	1.60	1.56	29.5	2875	174	162	500
70	Stranded Δ	1.1	0.4	2.2	30.5	2925	4 × 0.8	1.56	32.0	3430	2.00	1.56	34.0	3900	210	198	500
95	Stranded Δ	1.1	0.4	2.2	33.5	3880	4 × 0.8	1.56	35.0	4450	2.00	1.72	38.0	5125	252	240	500
120	Stranded Δ	1.2	0.5	2.4	37.5	4825	4 × 0.8	1.72	39.0	5575	2.00	1.88	42.0	6225	288	276	500

The above data is approximate and subject to manufacturing tolerance.

* Delivery Length tolerance is ±5%. Length more than normal as per customer request.



PVC INDUSTRIAL CABLE

Insulation

MES-CAB Single Core Flexible cables are PVC insulated (unsheathed) industrial wires with flexible copper conductor. The insulation is made with a special grade of PVC compound having high insulation resistance values. It has all the thermal and chemical properties which help in serving under tough situation. It enables completion of all the tests according to IS specification. The insulation is as per type of IS : 5831 : 1984 and is suitable for 700 continuous temperature operation. These cables are used in various industrial and domestic applications such as machinery tools, engineering equipments, telecommunication, control panel, fixed and flexible wiring in any type of industries.

Conductor

The conductors are drawn from 99.97% pure bright electrolytic grade annealed copper and bunched together which gives flexibility, high purity and conductivity ensuring higher current rating. Thus helps in saving energy.





MULTICORE CABLES

Insulation

To overcome the limitation of conventional Poly Vinyl Chloride (PVC) insulation of cables, conductors are insulated with specially formulated PVC Compound having High Insulation Resistance, Di-electric Strength, High Critical Oxygen Index and High Temperature Index.

Conductor

Manufactured from electrolytic grade bright annealed copper which provides maximum conductivity to the flow of electricity. Thus helps in saving energy.

Sheath

The separate insulated cores are to be assembled to form multi core cables. So, Multi core cables envisage the requirement of sheathing, 'MES-CAB' cables are provided with the exclusively formulated PVC compound for sheathing, meeting all the National Standards, minimizing electrostatic and mechanical break down.

PVC Insulated & PVC Sheathed Multicore Cable with electrolytic grade annealed copper conductor suitable up to 1100V grade conforming to IS:694

Nominal Area in Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm				Overall Diameter in mm (Approx)				Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				2 Core	3 Core	4 Core		2 Core	3 Core	4 Core			
0.50	16/0.2	0.60	2.20	0.9	0.9	0.9		6.2	6.5	7.0		4	39.00
0.75	24/0.2	0.60	2.45	0.9	0.9	0.9		6.7	7.2	7.8		7	26.00
1.00	32/0.2	0.60	2.45	0.9	0.9	0.9		7.0	7.4	8.1		12	19.5
1.50	30/0.25	0.60	2.75	0.9	0.9	0.9		7.6	8.0	9.2		15	13.3
2.50	50/0.25	0.70	3.50	1.0	1.0	1.0		9.1	9.6	10.7		20	7.98
4.00	56/0.3	0.80	4.10	1.0	1.1	1.1		10.5	11.4	12.4		27	4.95
6.00	84/0.3	0.80	4.80	1.1	1.1	1.2		12.3	13.3	14.7		35	3.30
10.00	80/0.4	1.00	6.30	1.2	1.2	1.3		15.7	16.9	18.6		40	1.91
16.00	126/0.4	1.00	7.30	1.3	1.3	1.4		18.0	19.10	21.2		62	1.21
25.00	196/0.4	1.20	9.30	1.4	1.5	1.6		23.0	23.5	26.1		80	0.78
35.00	276/0.4	1.20	10.50	1.5	1.6	1.7		25.5	26.3	29.2		102	0.554
50.00	396/0.4	1.40	12.40	1.6	1.7	1.8		29.0	31.8	34.0		138	0.386
70.00	360/0.5	1.40	14.70	1.6	1.7	1.8		29.0	31.8	34.0		214	0.272

Colours of core & sheath

Type	Colours of Core	Colours of Sheath
2 Core Sheathed	Red & Black	Black, White & Grey
3 Core Sheathed	Red, Black & Green for earth	Black, White & Grey
4 Core Sheathed	Red, Yellow, Blue & Green for earth	Black, White & Grey

- ✦ FR/FR-LSH multicore cables can be supplied on request at extra cost.
- ✦ Each cores of the wire is in different colour for identification.



PVC Insulated & PVC Sheathed Multicore Cable with electrolytic grade annealed copper conductor suitable up to 1100V grade generally conforming to IS:694

Nominal Area in Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm			Overall Diameter in mm (Approx)			Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				6 Core	7 Core	8 Core	6 Core	7 Core	8 Core		
0.50	16/0.2	0.6	2.20	0.90	0.90	1.00	8.50	8.50	9.30	4	39.00
0.75	24/0.2	0.6	2.45	1.00	1.00	1.00	9.50	9.50	10.40	7	26.00
1.00	32/0.2	0.6	2.45	1.00	1.00	1.00	9.80	9.80	10.70	12	19.5
1.5	30/0.25	0.6	2.75	1.00	1.00	1.10	10.70	10.70	11.90	15	13.3
2.5	50/0.25	0.7	3.50	1.00	1.10	1.20	12.70	12.70	14.10	20	7.98
4.0	56/0.3	0.8	4.10	1.20	1.20	1.30	15.30	15.30	16.90	27	4.95

Nominal Area in Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm				Overall Diameter in mm (Approx)				Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				10 Core	12 Core	14 Core		10 Core	12 Core	14 Core			
0.50	16/0.2	0.6	2.20	1.00	1.00	1.10		10.80	11.20	12.00		4	39.00
0.75	24/0.2	0.6	2.45	1.10	1.10	1.10		12.20	12.60	13.30		7	26.00
1.00	32/0.2	0.6	2.45	1.10	1.10	1.10		12.60	13.00	13.70		12	19.5
1.5	30/0.25	0.6	2.75	1.10	1.10	1.20		13.80	14.30	15.20		15	13.3
2.5	50/0.25	0.7	3.50	1.30	1.30	1.30		16.60	17.20	18.10		20	7.98
4.0	56/0.3	0.8	4.10	1.40	1.40	1.40		20.00	20.70	21.80		27	4.95

Nominal Area in Sq.mm	No. of strands/ Nominal Dia no./mm	Nominal Insulation Thickness mm	Core Dia (Approx) mm	Nominal Sheath Thickness in mm				Overall Diameter in mm (Approx)				Current Rating Amp	Max DC Conductor Resistance At 20°C Ohm/km
				16 Core	19 Core	24 Core		16 Core	19 Core	24 Core			
0.50	16/0.2	0.6	2.20	1.10	1.10	1.20		12.60	13.20	15.60		4	39.00
0.75	24/0.2	0.6	2.45	1.20	1.20	1.30		14.20	14.90	17.60		7	26.00
1.00	32/0.2	0.6	2.45	1.20	1.30	1.30		14.60	15.60	18.20		12	19.5
1.5	30/0.25	0.6	2.75	1.20	1.30	1.40		16.00	17.10	20.20		15	13.3
2.5	50/0.25	0.7	3.50	1.40	1.40	1.40		19.30	20.30	23.80		20	7.98
4.0	56/0.3	0.8	4.10	1.50	1.50	1.50		23.20	24.50	28.50		27	4.95



POWERLINE

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