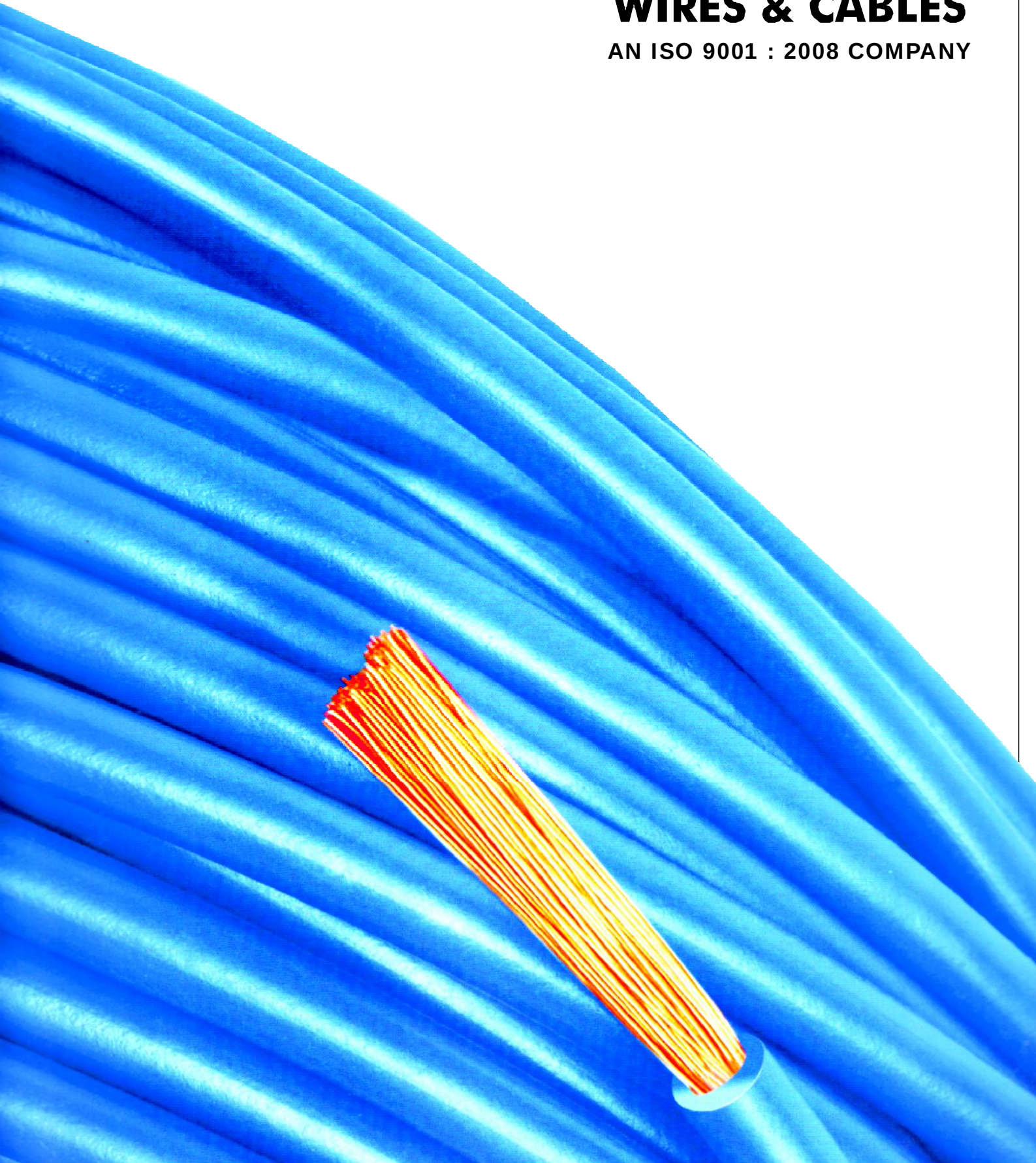




WIRES & CABLES

AN ISO 9001 : 2008 COMPANY



Company

Profile

Jigar Industries is one of the largest manufactures of "SIGMA" brand electric wires & cables in India. The company has a experience of manufacturing of wires and cables for more than 15 years, with the help of advance technology and skillful employers. The company has emerged as a pioneer in the electrical field.

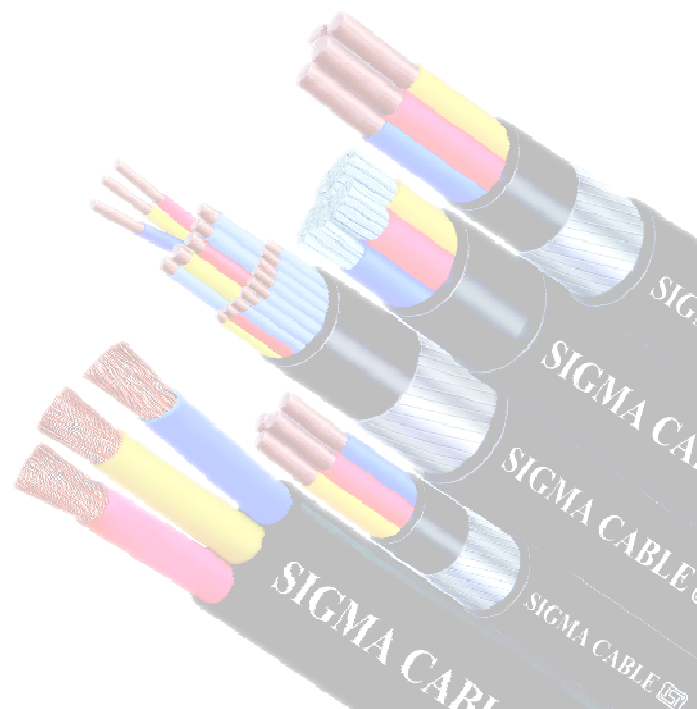
We are one of professionally managed company involved in manufacturing of wide range of wires and cables. We manufacture industrial cables with our sound infrastructure, professional management and required works force to enable us to undertake and complete our orders within time limits.

Quality Assurance

We have well equipped manufacturing unit with latest plant, machinery and laboratory with ultra modern and sophisticated type testing equipments for complete testing of the cables. There is also a "QUALITY CONTROL" cell to enforce stringent measures for quality of the product at various levels of manufacturing where the team of Engineers works to ensure, the best quality of product. Quality being the integral part of our company's manufacturing policy we always stand committed to ensure, quality from raw material stage to final product.

Our Vision

To be most preferred supplier of the product as well as services with feeling of perfection in the field related to our products and services for the welfare of the Trade, People, Staff, Workers, State, Nation, As Well As Global.



Our Market Segment



Chemical & Pharmaceutical Industries

Building & Construction Industries

Turnkey Electrical Contractor

Shipping & Marine Industries

Food & Beverages Industries

Thermal Power Generation

Petrochemical Industries

Automobiles Industries

Petroleum Refineries

Steel Plant Industries

Electronic Industries

Hotel & Real Estate

Port Trust Of India

Ginning Industries

Textiles Industries

Cement Industries

Plastics Industries

Hospitals

Railways

DGS&D

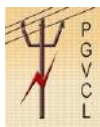
Mining



Our Valued Clients



INDIAN OIL
CORPORATION LTD.
(IOCL)



PGVCL



ONGC



BSNL



WESTERN RAILWAY



TUTICORIN PORT



JAWAHARLAL NEHRU
PORT TRUST (JNPT)



LT Power Cables & Control Cables

"SIGMA" 1.1 KV THREE CORE, ALUMINUM CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS : 1554 (PART - I)

Nominal cross sectional area	Nominal thickness of insulation	Minimum thickness of Inner sheath	ARMOUR		Minimum thickness of outer sheath	Approx overall diameter	Approx weight of cable	Max. DC conductor resistance at 20°C	CURRENT RATINGS		
			Galv. round steel wire nominal diameter mm.	Galv. flat steel strip nominal thickness mm.					Direct in ground	In Ducts	In Air
Sq.mm.	mm.	mm.			mm.	mm.	Kg./Km	Ohm/Km	Amps.	Amps.	Amps
1.50	0.80	0.30	1.40	...	1.24	12.7	375	18.1000	16	14	13
2.50	0.90	0.30	1.40	...	1.24	14.0	425	12.1000	21	18	18
4.00	1.00	0.30	1.40	...	1.24	15.6	500	07.4100	28	23	23
6.00	1.00	0.30	1.40	...	1.24	17.3	575	04.6100	35	30	30
10.00	1.00	0.30	...	0.80	1.40	19.0	700	03.0800	46	39	40
16.00	1.00	0.30	...	0.80	1.40	19.3	650	01.9100	60	50	51
25.00	1.20	0.30	...	0.80	1.40	22.0	800	01.2000	76	63	70
35.00	1.20	0.30	...	0.80	1.40	24.0	950	00.8680	92	77	86
50.00	1.40	0.30	...	0.80	1.56	27.6	1200	00.6410	110	95	105
70.00	1.40	0.40	...	0.80	1.56	30.8	1500	00.4430	135	115	130
95.00	1.60	0.40	...	0.80	1.56	34.6	1900	00.3200	165	140	155
120.00	1.60	0.40	...	0.80	1.72	37.5	2240	00.2530	185	155	180
150.00	1.80	0.50	...	0.80	1.88	41.9	2700	00.2060	210	175	205

"SIGMA" 1.1 KV FOUR CORE, ALUMINUM CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS : 1554 PART - I

1.50	0.80	0.30	1.40	...	1.24	15.00	400	18.1000	16	14	13
2.50	0.90	0.30	1.40	...	1.24	16.5	480	12.1000	21	18	18
4.00	1.00	0.30	1.40	...	1.24	18.00	550	07.4100	28	23	23
6.00	1.00	0.30	1.40	...	1.24	19.50	650	04.6100	35	30	30
10.00	1.00	0.30	1.40	...	1.40	20.00	660	03.0800	46	39	40
16.00	1.00	0.30	...	0.80	1.40	23.00	750	01.9100	60	50	51
25.00	1.20	0.30	...	0.80	1.40	23.70	950	01.2000	76	63	70
35.00	1.20	0.30	...	0.80	1.40	25.90	1165	00.8680	92	77	86
50.00	1.40	0.40	...	0.80	1.56	30.40	1540	00.6410	110	95	105
70.00	1.40	0.40	...	0.80	1.56	33.50	1800	00.4430	135	115	130
95.00	1.60	0.40	...	0.80	1.72	38.10	2400	00.3200	165	140	155
120.00	1.60	0.50	...	0.80	1.88	41.90	2800	00.2530	185	155	180
150.00	1.80	0.50	...	0.80	1.88	45.90	3350	00.2060	210	175	205

"SIGMA" 1.1 KV 3.1/2 CORE, ALUMINUM CONDUCTOR, PVC INSULATED, INNER SHEATHED, ARMoured PVC SHEATHED CABLES CONFORMING TO IS : 1554 PART - I

Nominal cross sectional area		Nominal thickness of insulation		Minimum thickness of inner sheath	ARMOUR Galv. flat steel strip nominal thickness mm.	Minimum thickness of outer sheath mm.	Approx overall diameter mm.	Approx weight of cable Kg./Km	Max. DC conductor resistance at 20°C		CURRENT RATINGS		
											Direct in ground	In Ducts	In Air
Main	Natural	Main	Natural	mm.	mm.	mm.	mm.	Kg./Km	Main	Natural	Amps.	Amps.	Amps.
Sq.mm	Sq.mm	Sq.mm	Sq.mm	mm.	mm.	mm.	mm.	Kg./Km	Ohm/Km	Ohm/Km	Amps.	Amps.	Amps.
25	16	1.20	1.00	0.30	0.80	1.40	23.10	900	1.200	1.910	76	63	70
35	16	1.20	1.00	0.30	0.80	1.40	24.90	1030	0.868	1.910	95	77	86
50	25	1.40	1.20	0.30	0.80	1.56	28.80	1350	0.641	1.200	100	95	105
70	35	1.40	1.20	0.40	0.80	1.56	32.20	1725	0.443	0.868	135	115	130
95	50	1.60	1.40	0.40	0.80	1.56	36.30	2130	0.320	0.641	165	140	155
120	70	1.60	1.40	0.50	0.80	1.72	40.10	2580	0.253	0.443	185	155	180
150	70	1.80	1.40	0.50	0.80	1.88	43.80	3050	0.206	0.443	210	175	205



"SIGMA" 1.1 KV ANNEALED HIGH CONDUCTIVITY SOLID CONDUCTOR, 1.5 SQ. MM. PVC INSULATED, INNER SHEATHED, ARMoured / UNARMoured PVC SHEATHED CONTROL CABLES CONFORMING TO IS : 1554 (PART-I)

Number of cores	Nominal thickness of insulation mm.	Min thickness of inner sheath mm.	ARMOUR		Nominal sheath thickness Unarmoured mm.	Minimum sheath thickness Armoured mm.	Approx overall diameter		Approx overall diameter		MAX.DC conductor resistance at 20oC ohm/Km.	CURRENT RATINGS		
			Galv. round steel wire nom. dia. mm.	Galv. flat steel strip nom. thick. mm.			Unarmoured mm.	Armoured mm.	Unarmoured Kg./mm.	Armoured Kg./mm.		Direct in ground Amps.	In Ducts Amps.	In Air Amps.
02	0.80	0.30	1.40	...	1.80	1.24	10.20	13.38	130	350	12.10	23	20	20
03	0.80	0.30	1.40	...	1.80	1.24	10.70	13.38	160	400	12.10	21	17	17
04	0.80	0.30	1.40	...	1.80	1.24	11.50	14.68	190	450	12.10	21	17	17
05	0.80	0.30	1.40	...	1.80	1.24	12.45	15.55	225	500	12.10	21	17	17
06	0.80	0.30	1.40	...	1.80	1.24	13.20	16.48	250	550	12.10	15	13	13
07	0.80	0.30	1.40	...	1.80	1.24	13.20	16.48	265	565	12.10	14	13	13
10	0.80	0.30	1.40	...	1.80	1.24	16.20	18.70	350	750	12.10	13	11	11
12	0.80	0.30	...	0.80	1.80	1.24	17.80	19.20	400	650	12.10	12	10	10
14	0.80	0.30	...	0.80	1.80	1.40	17.90	19.97	450	760	12.10	11	10	10
16	0.80	0.30	...	0.80	1.80	1.40	19.25	20.87	500	800	12.10	11	09	09
19	0.80	0.30	...	0.80	2.00	1.40	20.00	21.80	600	850	12.10	10	09	09
24	0.80	0.30	...	0.80	2.00	1.40	23.00	24.90	725	1050	12.10	09	08	08
30	0.80	0.30	...	0.80	2.00	1.40	24.50	26.17	860	1200	12.10	09	07	07
37	0.80	0.30	...	0.80	2.00	1.40	26.00	28.00	1050	1400	12.10	08	07	07
61	0.80	0.40	...	0.80	2.20	1.56	33.00	34.72	1650	2100	12.10	07	06	06

"SIGMA" 1.1 KV ANNEALED HIGH CONDUCTIVITY SOLID CONDUCTOR, 2.5 SQ.MM. PVC INSULATED, INNER SHEATHED, ARMoured / UNARMoured PVC SHEATHED CONTROL CABLES CONFORMING TO IS : 1554 (PART-I)

02	0.90	0.30	1.40	...	1.80	1.24	10.68	14.58	160	425	7.41	32	27	27
03	0.90	0.30	1.40	...	1.80	1.24	11.40	15.17	225	475	7.41	27	24	24
04	0.90	0.30	1.40	...	1.80	1.24	11.50	16.13	250	530	7.41	27	24	24
05	0.90	0.30	1.40	...	1.80	1.24	14.10	17.49	300	600	7.41	27	24	24
06	0.90	0.30	1.40	...	1.80	1.24	15.40	18.28	340	675	7.41	20	18	18
07	0.90	0.30	1.40	...	1.80	1.24	15.40	18.28	375	700	7.41	20	17	17
10	0.90	0.30	...	0.80	1.80	1.40	19.00	21.10	500	780	7.41	18	15	15
12	0.90	0.30	...	0.80	2.00	1.40	20.00	21.69	600	850	7.41	17	14	14
14	0.90	0.30	...	0.80	2.00	1.40	20.90	22.62	650	950	7.41	16	13	13
16	0.90	0.30	...	0.80	2.00	1.40	22.10	23.69	750	1050	7.41	15	13	13
19	0.90	0.30	...	0.80	2.00	1.40	23.00	24.80	850	1150	7.41	14	12	12
24	0.90	0.30	...	0.80	2.00	1.40	26.60	28.82	1050	1400	7.41	13	11	11
30	0.90	0.30	...	0.80	2.00	1.56	28.40	30.34	1250	1700	7.41	12	10	10
37	0.90	0.40	...	0.80	2.20	1.56	31.00	32.72	1550	2000	7.41	11	10	10
61	0.90	0.40	...	0.80	2.20	1.56	38.40	40.44	2450	3100	7.41	09	08	08

CURRENT RATING OF "SIGMA" COPPER ARMoured / UNARMoured CABLES 650 / 1100 V GRADE IN AIR

Area Sq.mm.	Twin Core Amp.	3,3.1/2,4 Core Amp.	Area Sq.mm.	Twin Core Amp.	3,3.1/2,4 Core Amp.
1.50	20	17	25	105	90
2.50	27	24	35	125	110
4.00	35	30	50	155	135
6.00	45	39	70	195	165
10.00	60	52	95	230	200
16.00	78	66			

The above data is indicative and may be revised without prior information
"SIGMA" will not liable for any damages arising out of incorrect application



Submersible

Flat Cables

"SIGMA" is the leading manufacture of submersible flat cables & submersible winding wires. SIGMA is the fastest growing company in cable industry,

"SIGMA" 3 Core flat cables have bee specifically designed for submersible pump motor. The manufactured keeping in mind the severe, tough and difficult condition in which they have to operate.

Conductors : The conductors are drawn from bright electrolytic grade copper annealed and bunched together.

Insulation : Bunched conductors are insulated with specially formulated PVC compound having high insulation resistance values.

Sheathing : 3 Core are in parallel position and sheathed with a special grade of PVC compound which has high resistivity water grease, oil etc.

Quality Control : High quality standards in every product. Strict quality controls are carried out every stage from raw material to finished goods stage so to deliver the best product.

Application : Ideal for irrigation pumps, drinking water supply pump, offshore drilling rings, fire fighting equipment sewage treatment plants, sea water / river water / handling equipments.

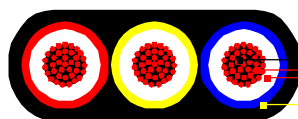
"SIGMA" 3 CORE FLAT CABLES FOR SUBMERSIBLES PUMPS

CONDUCTOR		PVC INSULATION		PVC SHEATH			Current Ratings at 40 ⁰ C Amps.	Approx Weight kg./ km.
Nominal Area in sq.mm.	Nos. & Dia. of wire Nos./mm	Nominal Thickness mm	Nominal Core dia. mm	Nominal Thickness mm	Approx Overall Dimensios			
					Thickness mm	Width mm		
1.50	22/0.30	0.80	3.25	1.15	6.00	12.80	14	125
2.50	36/0.30	0.90	3.84	1.15	6.40	14.60	18	175
4.00	56/0.30	1.00	4.65	1.15	7.40	17.20	26	235
6.00	85/0.30	1.00	5.30	1.15	7.90	18.70	31	325.
10.00	140/0.30	1.00	6.60	1.40	9.90	23.70	42	525
16.00	226/0.30	1.00	8.20	1.40	11.40	28.00	57	785
25.00	354/0.30	1.20	10.10	2.00	14.70	35.50	72	1270
35.00	495/0.30	1.20	11.50	2.00	16.20	39.50	90	1640
50.00	703/0.30	1.40	13.60	2.20	18.30	45.50	115	2080

NOTE: Sheath thickness given are nominal and overall diameters given are approximate. The nos. of wires indicated are approximate and diameter of strands is nominal and shall be such that satisfies the requirements as per IS : 8130

Construction Of Flat Cable

3 Core Flat Cables



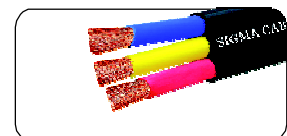
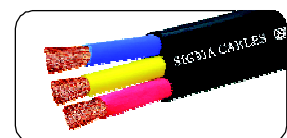
Copper Conductor

Co-Extruded PVC Insulation Of Cores (Red, Yellow, Blue)

PVC Sheath



Flat Cable



Safe Home

House Wires

"SIGMA" FR House wires are insulated with FR (Fire retardant) PVC Compound provide added safety and suitable for continuous conductor temperature of 105° C that can withstand the additional current load without compromising on safety.

This FR PVC compound has a high oxygen and temperature index. This compound also offers high insulation resistance and dielectric strength.

SIGMA FR PVC WIRES

Nominal cross section area of conductor Sq.mm	Number / Nom. Dia of wires Number/ mm	Thickness of insulation (Nom) mm	Over all diameter max. mm	Current Rating Apms.	Resistance (max) per km. @ 20° C OHM	Standard Packing (Coils)
0.75	10/0.30	0.60	2.50	7	26.00	28
1.00	14/0.30	0.70	2.80	12	18.10	20
1.50	22/0.30	0.70	3.10	16	12.10	16
2.50	36/0.30	0.80	3.80	22	7.41	14
4.00	56/0.30	0.80	4.40	29	4.95	8
6.00	86/0.30	0.80	5.20	37	3.30	6

Standard Colours

Yellow, Red, Blue, Black & Green (For Earthing)



Location



Product Range

- Single Core & Multi Core Flexible Cables
- Industrial Power & Control Cables
- Submersible Flat Cables
- Ariel Bunched Cables
- House Wires
- Poly Insulated Submersible Connection Cables

Works & Admn. Office

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