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ANTECH WIRE & CABLE LLP

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Features

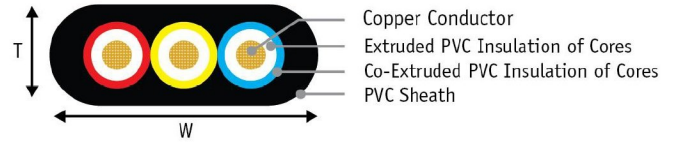
- ▶ Excellent flexibility & Long Life
- ▶ Excellent resistant to moisture, abrasion
- ▶ Excellent mechanical & electrical properties
- ▶ Temperature Range -15°C to +70°C

Technical Data

- ▶ Approvals : IS 694 Marks Latest
- ▶ Voltage Grade : Up to and including 1100 V
- ▶ Standard length : 500 meter or as per customer requirement
- ▶ Conductor : Annealed flexible EC bare Copper Conductor as per IS:8130
- ▶ Insulation & Sheath : As per IS 5831
- ▶ Sheath colors : Black/Blue/White PVC Sheath

Application

- ▶ Submersible flat cable can be used to supply power to all types of indoor and outdoor portable and fixed pumping equipment.
- ▶ Twin flat cables are suitable for wiring in residential and commercial places. These are also suitable for fire prone areas and chemical factories.



SPECIFICATION OF SUBMERSIBLE FLAT CABLES

3 CORE PVC SUBMERSIBLE FLAT COPPER CONDUCTOR CABLE UP TO 1100 V. AS PER IS 694 : 2010

CONDUCTOR		PVC INSULATION		PVC SHEATH			Current Rating At 40 °C in Amps.	Max. D/C Resistance @ 20°C Ohm/km.
Nominal c/s Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Approx. Core Dia. in mm.	Nominal Thickness in mm.	Approx. Overall Dimensions			
					Height mm	Width mm		
1.00	14/0.30*	0.6	2.7	1	4.8	10.4	11	18.1
1.50	22/0.30*	0.6	3.2	1	5.2	11.7	14	12.1
2.50	36/0.30*	0.7	3.6	1.1	6.1	13.8	18	7.41
4.00	56/0.30*	0.8	4.2	1.2	7.1	15.8	26	4.95
6.00	84/0.30*	0.8	5.3	1.3	8.2	18.9	31	3.30
10.00	140/0.30*	1.0	6.7	1.4	10.3	23.6	42	1.91
16.00	226/0.30*	1.0	8.0	1.6	12.4	27.5	57	1.21
25.00	354/0.30*	1.2	9.8	2	14.6	35.0	72	0.780
35.00	495/0.30*	1.2	11.5	2	17.0	40.5	90	0.554
50.00	708/0.30*	1.4	13.5	2.2	19.3	46.5	115	0.386

SPECIFICATION OF TWIN FLAT CABLES

2 CORE PVC FLAT COPPER CONDUCTOR CABLE UP TO 1100 V. AS PER IS 694 : 2010

CONDUCTOR		PVC INSULATION		PVC SHEATH			Current Rating At 40 °C in Amps.	Max. D/C Resistance @ 20°C Ohm/km.
Nominal c/s Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Approx. Core Dia. in mm.	Nominal Thickness in mm.	Approx. Overall Dimensions			
					Height mm	Width mm		
0.50	16/0.20*	0.6	2.3	0.9	4.35	6.40	4	39
0.75	24/0.20*	0.6	2.5	0.9	4.50	7.00	7	26
1.00	32/0.20*	0.6	2.7	0.9	4.70	7.15	11	19.5
1.50	22/0.30*	0.6	3.1	0.9	5.15	8.30	14	12.1
2.50	36/0.30*	0.7	3.5	1.0	5.80	9.40	18	7.41

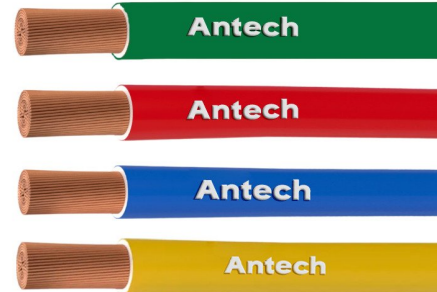
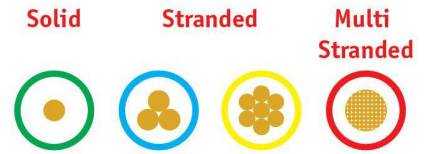
Class-2 Flexible copper Conductor As Per IS 8130 © || Class-5 Flexible copper Conductor As Per IS 8130

Features

- ▶ Long Life
- ▶ High Flame Retardant Properties
- ▶ Excellent resistant to moisture, abrasion, grace, oil mean
- ▶ Excellent mechanical & electrical properties
- ▶ Steam and boiling water resistant
- ▶ Non Corrosive & non toxic insulation

Technical Data

- ▶ Approvals : IS 694 Marks Latest
- ▶ Voltage Grade : Up to and including 1100 V
- ▶ Standard length : Coils 45m, 90m, 180m
- ▶ Conductor : Annealed flexible EC Copper class-2 or class-5 Conductor as per IS:8130 Stranded
- ▶ Insulation : PVC FR and FR-LSH as per IS 5831
- ▶ Colors : Red, Yellow, Blue, Black, Brown, Grey, Orange, White, Green, Yellow/ Green or as per customer requirement



Application

- ▶ Suitable for wiring in all types of residential and commercial infrastructure.
- ▶ Also Suitable for use in conduit and for fixed, protected installation particularly suitable for wiring in fire and explosion prone areas, chemical factories, densely wired areas, public buildings, schools, hospitals, commercial complexes, theaters, etc.

SPECIFICATION OF HOUSE WIRE

SINGLE CORE PVC INSULATED UNSHEATHED ELECTROLYTIC COPPER WIRES UP TO 1100V AS PER IS 694 : 2010

Nominal c/s Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Approx. Overall Dia. In mm	Current Rating At 40°C In Amps(#)	Max. D/C Resistance Per km. @ 20°C Ohm./km(*)
0.50	16/0.20*	0.6	2.2	4	39.0
0.75	24/0.20*	0.6	2.5	7	26.0
1.00	14/0.30*	0.7	2.7	11	18.1
1.50	22/0.30*	0.7	3.0	14	12.1
2.50	36/0.30*	0.8	3.5	18	7.41
4.00	56/0.30*	0.8	4.2	26	4.95

SINGLE CORE PVC UNSHEATHED ELECTROLYTIC COPPER INDUSTRIAL FLEXIBLE CABLES UP TO 1100 V. AS PER IS 694 : 2010

Nominal c/s Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Approx. Overall Dia. In mm	Current Rating At 40°C In Amps(#)	Max. D/C Resistance Per km. @ 20°C Ohm./km(*)
6.00	84/0.30*	0.8	5.0	31	3.30
10.00	140/0.30*	1.0	6.2	42	1.91
16.00	226/0.30*	1.0	7.5	57	1.21
25.00	354/0.30*	1.2	9.0	72	0.780
35.00	495/0.30*	1.2	10.4	90	0.554
50.00	708/0.30*	1.4	13.0	115	0.386
70.00	988/0.30*	1.4	16.0	165	0.272
95.00	1349/0.30*	1.6	18.2	200	0.206
120.00	608/0.50*	1.6	20.2	225	0.161

Class-2 Flexible copper Conductor As Per IS 8130 © || Class-5 Flexible copper Conductor As Per IS 8130

Features

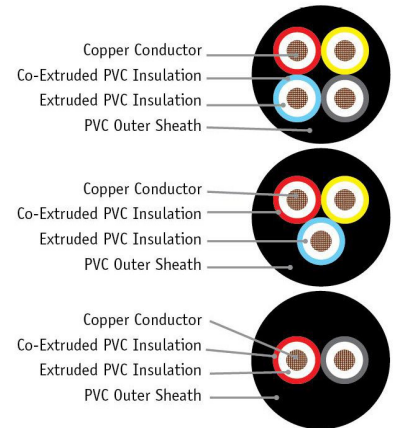
- ▶ Long Life
- ▶ High flexibility
- ▶ Excellent resistant to moisture & abrasion
- ▶ Excellent mechanical & electrical properties
- ▶ High Thermally Stable Insulation

Technical Data

- ▶ Approvals : IS 694 Marks Latest
- ▶ Voltage Grade : Up to and including 1100 V
- ▶ Standard length : 100 meter or as per customer requirement
- ▶ Conductor : Annealed flexible EC bare Class 5 Copper Conductor as per IS:8130
- ▶ Insulation & Sheath : As per IS 5831
- ▶ Sheath colors : Black/Grey/White/Orange

Application

- ▶ PVC insulated and sheathed multicore flexible cables have a wide range of application in machine tools, appliances, control panels, machinery and industries of every nature.



SPECIFICATION OF ROUND FLEXIBLE CABLES

MULTI CORE PVC INSULATED & SHEATHED ROUND FLEXIBLE COPPER CABLES UP TO 1100 V. AS PER IS 694

Nominal c/s Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Core Dia. in mm.	Outer Sheath Nominal Thickness In mm.			Max. Overall Dia. In mm.			Current Rating At 40 °C in Amps.	Max. D/C Resistance @ 20°C Ohm/km.
				2 Core	3 Core	4 Core	2 Core	3 Core	4 Core		
0.5	16/0.2	0.6	2.3	0.9	0.9	0.9	6.9	7.3	8	4	39
0.75	24/0.2	0.6	2.5	0.9	0.9	0.9	7.3	7.7	8.4	7	26
1	32/0.2	0.6	2.7	0.9	0.9	0.9	7.6	8.1	8.8	11	19.5
1.5	30/0.25	0.6	3.1	0.9	0.9	1.0	8.9	9.4	10.4	14	13.30
2.5	50/0.25	0.7	3.5	1.0	1.0	1.0	10.3	10.9	12.0	18	7.98
4	56/0.3	0.8	4.2	1	1	1	11.6	12.4	13.6	24	4.95
6	84/0.3	0.8	5	1.1	1.2	1.2	13.0	13.8	15.47	31	3.30
10	140/0.3	1	6.2	1.3	1.4	1.4	16.5	17.69	19.5	42	1.91
16	226/0.3	1	7.5	1.4	1.4	1.4	19.4	20.6	23	57	1.21
25	354/0.3	1.2	9	1.4	1.5	1.6	23.8	25.6	28.5	72	0.78
35	495/0.3	1.2	10.4	1.6	1.6	1.7	27.2	29.3	32.7	90	0.554

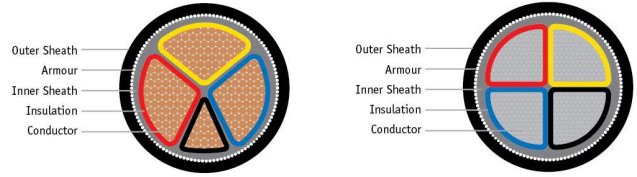
Note : We also manufacture super soft multicore copper cables which provide extra flexibility.
Range: 2 core and 3 core, 0.50 sq.mm. to 1.50 sq.mm. OR as per specific requirement of customers.

Features

- ▶ Dielectric losses are very small.
- ▶ Jointing and Termination is easy.
- ▶ Higher short circuit rating of 250°C as against 160°C for PVC
- ▶ Has better resistance to most chemicals, oils, acids, etc.

Technical Data

- ▶ Construction: 3.5 and 4 cores AL conductor, XLPE insulated, galvanised steel strip / wire armoured cables as per IS 7098 Part - 1.
- ▶ Conductor: AL up to 10 Sq. mm conductor are solid Cl.1 as per IS-8130. & above 10 Sq. mm conductor are stranded compact shape Cl. 2 as per IS-8130
- ▶ Insulation : Cross linked polyethylene (XLPE)
- ▶ Core Color : Red, yellow, blue, black
- ▶ Inner Sheath : PVC / PVC tape as per IS 7098 (P-1)
- ▶ Armouring : Single armouring of galvanised steel strip / wire
- ▶ Outer Sheath : PVC Type ST-2 as per IS 5831 (FR/FRLS Type)
- ▶ Cable Color : Black (Other Colours available as per requirement)



Application

- ▶ The Cables are suitable for use on AC single phase or three phase (earthed or unearthed) systems for rated Voltage up to 1100 Volts.

SPECIFICATION OF SUBMERSIBLE FLAT CABLES

3.5 CORE XLPE INSULATED PVC SHEATHED UNARMoured & ARMoured POWER CABLES OF 1100 V GRADE GENERALLY CONFORMING TO IS 7098 (PART-1) WITH ALUMINIUM SHAPED CONDUCTOR

Nominal size of conductor Sq. mm	Nominal Thickness of XLPE Insulation (mm)	Min. Thickness of PVC Inner Sheath (mm)	Unarmoured		Formed wire/ Strip Armoured			Round Wire Armoured Cable			Current Rating in Air (Amps)
			Nominal Thickness of PVC Outer Sheath (mm)	Approx. Overall Diameter of Cable (mm)	Nominal Dimension of GI Flat Strip (mm)	Min. Thickness of PVC Outer sheath (mm)	Approx. Overall Diameter of Cable (mm)	Nominal Dimension of GI Round Wire (mm)	Min. Thickness of PVC Outer Sheath (mm)	Approx. Overall Diameter of Cable (mm)	
25/16	0.9/0.7	0.3	2	22	0.8 x 4.0	1.4	23	1.6	1.4	25	99
35/16	0.9/0.7	0.3	2	24	0.8 x 4.0	1.4	25	1.6	1.4	27	117
50/25	1.0/0.9	0.3	2	27.5	0.8 x 4.0	1.4	28	1.6	1.56	30	140
70/35	1.1/0.9	0.4	2.2	31	0.8 x 4.0	1.56	32	2	1.56	35	176
95/50	1.1/1.0	0.4	2.2	35	0.8 x 4.0	1.56	35	2	1.56	38	221
120/70	1.2/1.1	0.4	2.2	37.5	0.8 x 4.0	1.72	39	2	1.72	42	258
150/70	1.4/1.1	0.5	2.4	41	0.8 x 4.0	1.72	43	2	1.88	46	294
185/95	1.6/1.1	0.5	2.6	46.5	0.8 x 4.0	1.88	47	2.5	2.04	51	339
240/120	1.7/1.2	0.6	2.8	52.5	0.8 x 4.0	2.04	53	2.5	2.2	56	402
300/150	1.8/1.4	0.6	3	56	0.8 x 4.0	2.2	57	2.5	2.36	60	461

4 CORE XLPE INSULATED, UNARMoured & GALVANISED STEEL STRIP / WIRE ARMoured CABLES GENERALLY CONFORMING TO IS 7098 (PART-1) WITH ALUMINIUM CONDUCTOR

Nominal size of conductor Sq. mm	Nominal Thickness of XLPE Insulation (mm)	Min. Thickness of PVC Inner Sheath (mm)	Unarmoured		Formed wire/ Strip Armoured			Round Wire Armoured Cable			Current Rating in Air (Amps)
			Nominal Thickness of PVC Outer Sheath (mm)	Approx. Overall Diameter of Cable (mm)	Nominal Dimension of GI Flat Strip (mm)	Min. Thickness of PVC Outer sheath (mm)	Approx. Overall Diameter of Cable (mm)	Nominal Dimension of GI Round Wire (mm)	Min. Thickness of PVC Outer Sheath (mm)	Approx. Overall Diameter of Cable (mm)	
4	0.7	0.3	1.8	16	N/A	N/A	N/A	1.4	1.24	18	30
6	0.7	0.3	1.8	17	N/A	N/A	N/A	1.4	1.24	19	40
10	0.7	0.3	1.8	19	N/A	N/A	N/A	1.4	1.4	21	53
16	0.7	0.3	1.8	20	0.8 x 4.0	1.4	20	1.6	1.4	22	70
25	0.9	0.3	2	24	0.8 x 4.0	1.4	24	1.6	1.4	26	99
35	0.9	0.3	2	26	0.8 x 4.0	1.4	27	1.6	1.4	28	117
50	1	0.3	2	29	0.8 x 4.0	1.56	30	1.6	1.56	32	140
70	1.1	0.4	2.2	34	0.8 x 4.0	1.56	34	2	1.56	37	176
95	1.1	0.4	2.2	37	0.8 x 4.0	1.56	37	2	1.72	40	221
120	1.2	0.5	2.4	41	0.8 x 4.0	1.72	41	2	1.88	44	258
150	1.4	0.5	2.6	45	0.8 x 4.0	1.88	46	2.5	2.04	49	294
185	1.6	0.5	2.8	50	0.8 x 4.0	2.04	51	2.5	2.2	54	339

Features

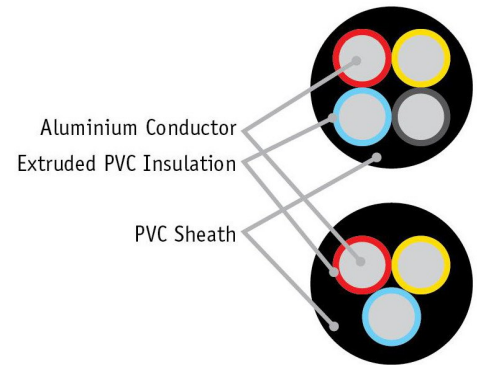
- ▶ Excellent resistant to moisture & abrasion
- ▶ Long Life
- ▶ Excellent mechanical & electrical properties
- ▶ High Thermally Stable Insulation addition

Technical Data

- ▶ Approvals : IS 694 Marks Latest
- ▶ Voltage Grade : Up to and including 1100 V
- ▶ Standard length : As per customer requirement
- ▶ Conductor : Aluminium Conductor as per IS:8130
- ▶ Insulation & Sheath : As per IS 5831
- ▶ Sheath colors : Black/Yellow

Application

- ▶ Round Aluminium cables are used for outdoor installation in wet location, laid direct in ground where mechanical damages are expected to occur
- ▶ Twin flat Aluminium Cables are used to provide electrical connections from the main line to house, building or complex



SPECIFICATION OF UNARMoured ALUMINIUM CABLES

PVC INSULATED & SHEATHED ROUND UNARMoured ALUMINIUM CABLES UP TO 1100V. GENERALLY CONFORMING TO IS 694:2010

Nominal c/s Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Approx. Core Dia. in mm.	Outer Sheath Nominal Thickness In mm.		Max. Overall Dia. In mm.		Current Rating At 40 °C in Amps.	Max. D/C Resistance @ 20°C Ohm/km.
				3 Core	4 Core	3 Core	4 Core		
4.00	1/2.25	0.8	3.8	1.3	1.4	11.40	12.85	19	7.41
6.00	1/2.76	0.8	4.5	1.4	1.4	12.45	14.50	24	4.61
10.00	1/3.57	1.0	5.5	1.5	1.6	14.40	16.00	32	3.08
16.00	1/4.50	1.0	6.7	1.6	1.6	17.50	20.40	44	1.91
25.00	1/5.65	1.2	8.0	1.7	1.8	20.50	23.00	49	1.20
35.00	1/6.68	1.2	9.4	1.8	1.9	23.75	27.30	61	0.868

PVC INSULATED AND SHEATHED TWIN FLAT ALUMINIUM CABLES UP TO 1100V. CONFORMING TO IS 694:2010

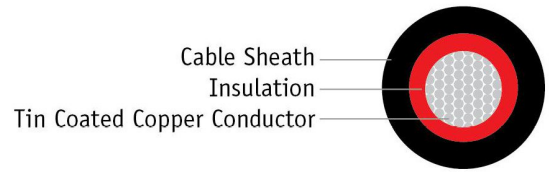
CONDUCTOR		PVC INSULATION		PVC SHEATH			Current Rating At 40 °C in Amps.	Max. D/C Resistance @ 20°C Ohm/km.
Nominal Area of Conductor in Sq. mm.	Conductor Construction No./mm	Nominal Insulation Thickness in mm.	Approx. Core Dia. in mm.	Nominal Thickness in mm.	Max. Overall Dimensions			
					Height mm	Width mm		
2.50	1/1.78	0.70	3.3	1.0	6.60	10.5	16	12.1
4.00	1/2.24	0.80	3.8	1.0	7.40	12.0	21	7.41
6.00	1/2.76	0.80	4.5	1.1	8.00	13.0	27	4.61
10.00	1/3.57	1.00	5.5	1.4	9.60	16.0	37	3.08

Features

- ▶ Mineral Oil Resistance
- ▶ Acid and Alkaline Resistance
- ▶ Ammonia Resistance
- ▶ Weather Resistance

Technical Data

- ▶ Standard : Generally Conforming to EN 50618
- ▶ Voltage Grade : AC 0.6 / 1.0 kV Cable Sheath
- ▶ PV - System Voltage : DC 1.8 kV . Insulation
- ▶ Conductor : AFine Wire Tinned Copper Conductor according to IEC 60228 cl. 5.
- ▶ Insulation : XLPO (cross linkable, halogen free, flame retardant) compound for core insulation.
- ▶ Sheath : XLPO (cross linkable, halogen free, flame retardant) compound for Sheath over insulation.
- ▶ Cable Colour : Red, Black, Black with Red Strip



Application

- ▶ Solar cables are intended for use in photovoltaic power supply systems and similar applications as free hanging, movable, fixed installation and buried in ground in constructional covered systems. The cables can be used indoor, outdoor, in hazard explosion areas, in industry and agriculture.

SPECIFICATION OF DC SOLAR CABLE

CABLE DESIGN PARAMETERS					
Nominal Cross-Sectional (sq. mm.)	Approx. Cable Diameter (mm)	Current carrying capacity according to method of installation			Max. Conductor Resistance at 20°C, (Ω/Km)
		Single cable Free in air (A)	Single cable on a surface (A)	Two loaded cables Touching, on a surface (A)	
1.5	4.7	30	29	24	13.7
2.5	5.1	41	39	33	8.21
4	5.6	55	52	44	5.09
6	6.1	70	67	57	3.39
10	7.1	98	93	79	1.95
16	8.3	132	125	107	1.24
25	10.1	176	167	142	0.795
35	11.5	218	207	176	0.565
50	13.3	276	262	221	0.393
70	15.2	347	330	278	0.277
95	16.9	416	395	333	0.210
120	18.7	488	464	390	0.164
150	20.9	566	538	453	0.132
185	23.2	644	612	515	0.108
240	26.1	755	736	620	0.0817