



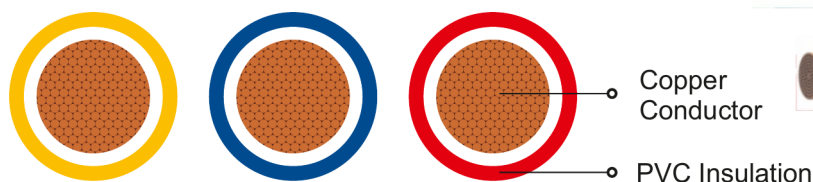
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OUR CLIENTS



& Many More...



Cable Standard

IS : 694 : 2010 & BS 6004, BS EN 50525-2-31

Cable Features

- Special heat resistant insulation
- Higher current carrying capacity.
- Fine copper wires
- Highly thermal stable insulation
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties

Application

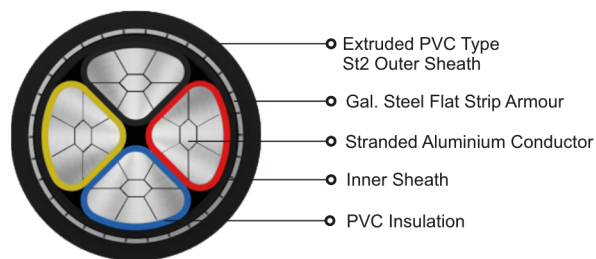
Fixed installation in conduits and under plaster, for appliance wiring and distribution stations.

Standard Packing.

Coils 90 and 180cm

- Conductor** : Flexible Bare Copper conductor class-2 and class-5 as per IS: 8130 EN 60228
- Insulation** : HR/FR/FRLS-H/ZHFR Insulation compound with a high insulation resistance value as per IS:5831
- Colour** : Red, Yellow/Green, Blue, Black, Brown, Grey, Orange, White, Green, Yellow
- Conductor** : PVC Self-extinguishing and flame retardant according to EN 60332-1-2

Size of Wire	No. of Wire/ Size of Wire	Insulation Thickness	OD	Max Conductor resistance at 20°C	Current Rating At Ambient Temperature
sq.mm	Nos/mm	(Nominal)mm	mm	Ω/km	Amps
0.50	16/0.20	0.6	1.90	39	4
0.75	24/0.20	0.6	2.20	26	8
1.0	14/0.30	0.6	2.40	19.5	11
1.5	22/0.30	0.6	2.80	13.3	14
2.5	36/0.30	0.7	3.35	7.98	18
4.0	56/0.30	0.8	3.80	4.95	24
6.0	84/0.30	0.8	4.80	3.3	31
10.0	140/0.30	1.0	6.0	1.91	52
16.0	224/0.30	1.0	7.50	1.21	75
25.0	350/0.30	1.2	9.50	0.78	88
35.0	490/0.30	1.2	11.0	0.554	112
50.0	703/0.30	1.4	13.0	0.386	146
70.0	988/0.30	1.4	16.0	0.272	212
95.0	1349/0.30	1.6	17.5	0.206	262
120.0	608/0.50	1.6	19.0	0.161	310
150.0	767/0.50	1.8	21.0	0.129	352
185.0	943/0.50	2.0	23.5	0.106	400
240.0	1223/0.50	2.2	26.5	0.0801	475
300.0	1525/0.50	2.4	29.5	0.0641	550
400.0	2035/0.50	2.6	33.5	0.0486	670
500.0	2553/0.50	2.8	37.5	0.0384	750
630.0	3219/0.50	2.8	42.0	0.0287	875



Application

The cables are suitable for use on AC single phase or three phase (Earthed or Unearthed) system for rated voltage up to and including 1100V, these cables can be used on DC systems for rated voltage up to and including 1500 volts to earth.

Cable Standard

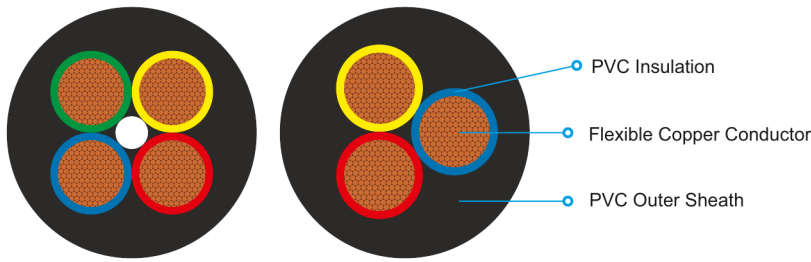
IS:7098 (part-1)-1988,
BS:5467, IEC 60502

Standard Packing.

Conductor	: Solid Bare Aluminum conductor for Size-1.5 sqmm to 10.0 sqmm, stranded bare Aluminum conductor for Size - 16.0 sqmm & above as per IS:8130
Insulation	: XLPE (crosslinked polyethylene) as per IS:7098
Inner Sheath	: PVC/LD tape
Type	: Armoured or Unarmoured.
Armouring	: Galvanized steel strip or Galvanized steel wire
Outer Sheath	: PVC ST-2, FR, FRLSH as per IS:5831

“ATONE” brand Unarmoured Power cable with ALUMINIUM Conductor 1.1 KV as per IS:7098 (P-1) Rate INR Per Mtr.

Size in sq.mm.	Amp. Cap. Approx	1 Core	2 Core	3 Core	3.5 Core	4 Core
		A2XY	A2XY	A2XY	A2XY	A2XY
4.00	23	—	111	139	—	167
6.00	30	—	155	184	—	225
10.00	39	—	225	250	—	295
16.00	51	109	228	283	—	374
25.00	70	157	295	399	506	532
35.00	86	203	387	549	549	659
50.00	110	261	486	676	805	882
70.00	130	360	699	973	1100	1266
95.00	155	463	829	1184	1400	1509
120.00	180	577	1033	1546	1800	1868
150.00	210	713	1285	1818	2106	2313
185.00	240	883	1532	2292	2693	2863
240.00	280	1120	2004	2958	3296	3740
300.00	320	1385	2449	3626	4271	4555
400.00	360	1782	3056	4524	5337	5997



Cable Standard

IS : 694 : 2010, BS 6500

Cable Features

- High Flexibility
- Excellent resistant to moisture, abrasion grace, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 X Cable Diameter

Standard Packing

Coils 100, 200, 300, 500, 1000m.

Conductor : Flexible Bare or Tinned Bunch
Copper as per IS:8130-1984

Insulation : PVC as per IS:5831-1984

Sheath : PVC as per IS:5831-1984

Core Colour

AS per IS 694 :2010

2 Core - Red & Black

3 Core - Red, Black, Green or Yellow and Blue

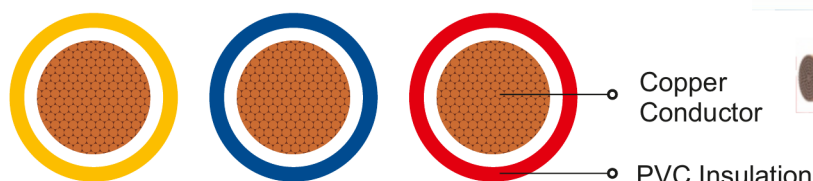
4 Core - Red, Yellow, Blue and Green or Black

Application

Ideal For Industrial induction motor, power tools electrical machinery etc...

Conductor		Insulation		Thickness of Sheath and Diameter				Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire/Size of Wire	Thickness (Nominal)	Core OD	Sheath Thickness (Nominal)	2 Core Outer Diameter	3 Core Outer Diameter	4 Core Outer Diameter		
Sq.mm	Nos.mm	mm	mm	mm	mm	mm	mm	Ω/km.	Amps.
0.50	16/0.20	0.60	2.05	0.90	5.60	6.0	6.40	39.0	4
0.75	24/0.20	0.60	2.30	0.90	6.0	6.80	7.20	26.0	7
1.0	32/0.20	0.60	2.50	0.90	6.80	7.0	8.0	19.50	11
1.5	30/0.25	0.60	2.90	0.90	7.80	8.0	9.20	13.30	14
2.5	50/0.25	0.70	3.50	1.0	9.20	9.50	11.10	7.98	18
4.0	56/0.30	0.80	4.0	1.10	10.60	11.60	12.50	4.95	24
6.0	84/0.30	0.80	5.0	1.10	13.0	13.80	15.0	3.30	31
10.0	140/0.30	1.0	6.0	2.0	18.0	19.0	20.20	1.91	52
16.0	224/0.30	1.0	7.30	2.0	20.0	21.50	23.50	1.21	70
25.0	350/0.30	1.2	9.50	2.30	24.0	26.0	28.0	0.780	88
35.0	490/0.30	1.2	11.0	2.50	27.0	29.0	31.50	0.554	112
50.0	700/0.30	1.4	13.0	2.80	30.0	34.0	37.0	0.386	146
70.0	980/0.30	1.4	15.0	3.10	35.0	38.0	42.2	0.272	216
95.0	1330/0.30	1.6	18.0	4.0	42.0	44.0	48.8	0.206	262

- Size 10.0 sqmm Above Outer sheath double cover



Salient Features (FR and FRLS)

- Good Flame Retardant Properties
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties
- Steam and boiling water resistant

Salient Features (ZHFR)

- Zero Halogen acid gas Evolution
- Non corrosive and non toxic insulation
- High temperature resistant insulation
- Better Flame retardant property
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life

Technical Data

Operating Temp : -10°C to max.+90°C

Nominal voltage : 1.1 KV

Test voltage : 3.0 KV

Flame propagation : Flame retardant test as per IS 10810-58,64, IEC 60332-1

Cable Standard

Generally conforms to IS 694:2010, Bs6004

Standard Packing

Coils 90m, 180m, and 360m

Conductor : Annealed flexible bare copper class-2 and class-5 conductor as per IS: 8130-1984

Insulation : PVC FR, FRLS, HRFR, ZHFR as per IS:5831-1984

Colour

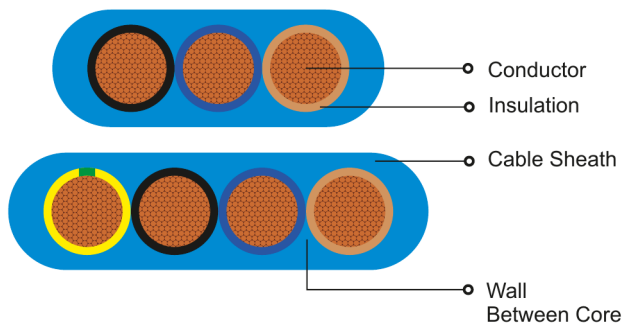
Red, Yellow, Blue, Black, Brown, Grey, Orange, White, Green, Yellow/green or as per customer requirement

Application

Fixed installation in conduits and under plaster, for appliance wiring & distribution stations. Fixed wiring in conduits & Building wire Application.

Wire Size	No. of wire/ Diameter of Wire	Insulation Thickness	OD	Max conductor Resistance at 20°C	Current Rating At Ambient Temperature
Sq.mm	Nos.mm	mm	mm	Ω/km.	Amps.
0.50	16/0.20	0.60	2.10	39.0	4
0.75	10/0.30* OR 24/0.20	0.60	2.40	26.0	8
1.0	14/0.30* OR 32/0.20	0.60	2.65	18.10	11
1.5	22/0.30* OR 30/0.250	0.70	3.0	12.10	13
2.5	36/0.30* OR 50/0.250	0.80	3.6	7.41	18
4.0	56/0.30	0.80	4.0	4.95	24
6.0	84/0.30	0.80	5.1	3.30	31
10.0	140/0.30	1.0	6.3	1.91	52
16.0	224/0.30	1.0	8.0	1.21	70

Test (FRLS)	Specification	Specified Values	Test (FR)	Specification	Specified Values	Test (ZHFR)	Specification	Specified Values
Limited Oxygen Index Test	IS 10810-58	> 29%	Limited Oxygen Index Test	IS 10810-58	> 29%	Limited Oxygen Index Test	IS 10810-58	> 31%
Limited Temperature Index Test	IS 10810-64	> 250°	Limited Temperature Index Test	IS 10810-64	> 250°	Limited Temperature Index Test	IS 10810-64	> 300°
Smoke Density Rating(Light Absorption)	ASTM D 2843	< 60%				Smoke Density Rating(Light Absorption)	ASTM D 2843	< 20%
Halogen Acid Gas Generation	IS 10810-59	< 20%				Halogen Acid Gas Generation	IS 10810-59	< 0.5%



Cable Standard

IS : 694 : 2010, BS 6500, IEC 60227

Salient Features

- Excellent Flexibility
- Excellent resistant to moisture, abrasion grace, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 X Cable Diameter

Standard Packing

Coils 100, 200, 300, 500, 1000m.

Conductor : Flexible Bare Bunch Copper as per IS:8130

Insulation : PVC / XLPE / EPR RUBBER

Outer Sheath : PVC / EPR RUBBER

Core Colour

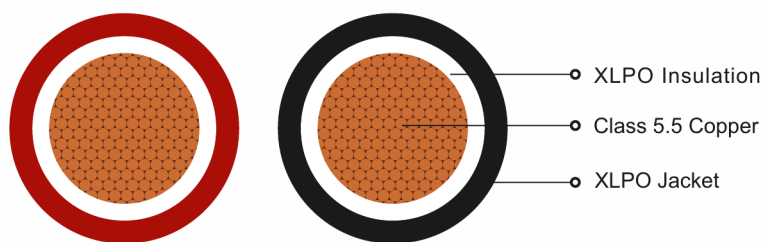
As per IS: 694:2010 - 3C-Red, Yellow, Blue, 4C-Red, Yellow, Blue, Black

As per IEC:60227 - 3C-Black, Blue, Brown, 4C - Black, Blue, Brown, Green or Yellow/Green

Application

Ideal For Irrigation Pumps, Drinking Water Supply Pumps, Submersible pump motor power supply.

Conductor		Insulation		Sheath			Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire/Size of Wire	Thickness	Core OD	Thickness	Overall Size			
					3 Core	4 Core		
Sq.mm	Nos.mm	Nos.mm	mm	mm	mm	mm	Ω/km.	Amps.
1.0	14/0.30	0.60	2.60	0.90	9.90×4.70	12.50×4.80	18.1	11
1.5	22/0.30	0.60	2.80	0.90	10.50×4.80	14.20×5.10	12.1	14
2.5	36/0.30	0.70	3.35	1.0	12.60×5.90	17.50×7.0	7.41	18
4.0	56/0.30	0.80	4.0	1.0	14.50×6.70	20.0×7.90	4.95	26
6.0	84/0.30	0.80	5.0	1.0	17.50×7.50	23.50×9.0	3.30	31
10.0	140/0.30	1.0	6.5	1.40	22.80×9.90	29.0×9.90	1.91	52
16.0	224/0.30	1.0	8.0	1.40	28.0×13.0	36.0×11.40	1.21	70
25.0	350/0.30	1.20	10.0	2.0	24.50×14.80	45.0×14.70	0.780	88
35.0	490/0.30	1.20	11.50	2.0	38.0×17.0	50.0×16.20	0.554	112
50.0	700/0.30	1.40	13.50	2.20	46.0×20.50	58.0×18.30	0.386	146
70.0	980/0.30	1.40	15.3	2.20	53.0×23.0	66.5×20.0	0.272	190
95.0	1330/0.30	1.60	18.0	2.40	60.0×28.0	77.3×23.50	0.206	225



Electrical Characteristics

- Rated Voltage : 0.6/1 KV Ac
- Rated DC Voltage : 1.5 KV
- Maximum Permitted DC Voltage : 1.8 KV
(conductor/conductor, non earthen system, circuit not under load)
- Maximum Permitted AC Voltage : 1 KV
- Working Voltage : DC 1000 V
- Spark Test : 6000 V. ac (8400 Vdc)
- Voltage Withstand : 6500 V as per En50395 for 5 min
- Ampacity : According to requirements for cable for PV systems

Technical Data

- Ambient Temperature : -40°C - +90°C
- Minimum Bending Radius : 5 x OD (fixed), 15 x OD (occasional flexing)
- Flame retardant according to IEC 60332-1-2 C
- Low smoke emission <20% as per ASTM D-2843
- Halogen free according to EN 50267-2-1/-2, IEC 60754-2
- Maximum Temperature at Conductor : 120°C (20000h)
- Short Circuit Temperature : 200°C (at conductor max. 5sec)
- Thermal Endurance Test : According to EN 60216-2 (temperature index +120°C)
- High Temperature pressure : Test according to EN 60811-3-1
- Excellent mechanical and electrical properties.
- UV resistance & OZONE resistance
- Flexibility & suitability for fast & easy installation

Cable Standard

EN 50618

Standard Packing

Coils 100, 200, 300, 500, 1000m

- Conductor** : Flexible Electrolytic fine Tinned Copper Class-5 conductor according to IEC 60228
- Insulation** : XLPO (Crosslinked Halogen Free & Flame Retardant)
- Sheath** : XLPO (Crosslinked Halogen Free & Flame Retardant)

Colour

Red, Black and also available black color with red lining

Application

For Solar Panel, Solar Power Plant, Solar Pump Installation.

Size of Cable	Max. Conductor D.C Resistance at 20°C	Insulation Thickness	Sheath Thickness	Outer Diameter	Current Rating under continues operation 90°C and Ambient Temperature 40°C (in A)	Short Circuit Current Rating For 1 sec. Duration (in KA)
Sq.mm	ohm/ (Km)	(Nominal) mm	(Nominal) mm	mm		
1.5	13.7	0.60	0.70	4.30	22	0.189
2.5	8.71	0.70	0.80	5.0	30	0.315
4.0	5.09	0.70	0.80	5.60	42	0.504
6.0	3.39	0.80	0.90	6.20	52	0.756
10.0	1.95	0.80	0.90	7.10	76	1.26
16.0	1.24	0.90	1.0	8.30	95	2.02

- Current Rating Conversion Factors For Different Ambient Temperature

Ambient Temperature°C	Up to 60	70	80	90
Conversion Factor	1	0.92	0.84	0.75



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