

AVOCAB

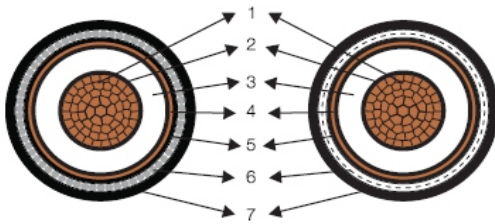
WIRES & CABLES

SINGLE CORE ALUMINIUM /COPPER CONDUCTOR, XLPE INSULATED UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART-2/1985

VOLTAGE GRADE : 6.35/11 KV (E), 6.6 /6.6 KV (UE) (A2XFaY/2XFaY,A2XWaY/2XWaY)

Nominal Size of Conductor	Nominal Thickness of xlpe insulation	UNARMoured CABLE						Round Wire Armoured Cable						CURRENT RATING			
		Nom Thickness of pvc outer sheath	Approx Overall Diameter of cable	Al Approx Weight of cable	Cu Approx Weight of cable	Nom insulation thickness	Min inner sheath thickness	Nom Dimension of al Round Wire	Min Thickness of pvc outer sheath	approx Diameter of cable	Al Approx Weight of cable	Cu Approx Weight of cable	Aluminium		Copper		
													In ground	In air	In ground	In air	
Sq.mm	mm	mm	mm	kg./km	kg./km	mm	mm	mm	mm	mm	kg./km	kg./km	Amps.	Amps.	Amps.	Amps.	
25	-	-	-	-	-	3.60	0.30	1.60	1.40	22	600	750	100	120	130	155	
35	3.6	2.0	21.00	455	660	3.60	0.30	1.60	1.40	23	650	850	120	145	155	185	
50	3.6	2.0	22.00	515	790	3.60	0.30	1.60	1.40	25	750	1000	140	170	185	220	
70	3.6	2.0	23.50	605	1010	3.60	0.30	1.60	1.40	26	850	1250	175	215	225	275	
95	3.6	2.0	25.00	715	1275	3.60	0.30	1.60	1.40	28	950	1500	205	260	265	340	
120	3.6	2.0	27.50	830	1535	3.60	0.30	1.60	1.56	29	1100	1800	235	305	300	390	
150	3.6	2.0	28.00	915	1785	3.60	0.30	1.60	1.56	31	1250	2100	260	345	335	440	
185	3.6	2.2	30.50	1090	2175	3.60	0.40	2.00	1.56	34	1500	2550	295	395	380	510	
240	3.6	2.2	33.00	1300	2730	3.60	0.40	2.00	1.56	36	1700	3100	340	470	435	600	
300	3.6	2.2	35.00	1500	3300	3.60	0.40	2.00	1.56	38	1950	3700	385	540	490	680	
400	3.6	2.2	38.00	1795	4090	3.60	0.40	2.00	1.72	41	2350	4600	440	630	550	790	
500	3.6	2.4	41.50	2195	5135	3.60	0.50	2.00	1.88	46	2850	5750	495	730	610	910	
630	3.6	2.4	45.00	2655	6465	3.60	0.50	2.00	1.88	50	3350	7100	560	840	680	1030	
800	3.6	2.6	51.00	3315	8195	3.60	0.50	2.50	2.04	55	4200	9000	620	960	740	1140	
1000	3.6	2.8	55.50	4015	10135	3.60	0.60	2.50	2.20	60	5000	11000	680	1070	790	1250	

Cross-sectional view



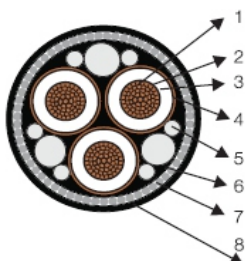
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
 2. Conductor Screening : Extruded Semiconductor Compound
 3. Insulation Material : XLPE (Cross linked polyethylene)
 4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
 5. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 6. Armoring : Single layer of Aluminium Round Wire / Flat Strip
 7. Outer Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
- Colour of Outer Sheath : Black or any other color as per requirement

THREE CORE ALUMINIUM &COPPER CONDUCTOR, XLPE INSULATED , UNARMoured & ARMoured CABLE CONFORMING TO IS : 7098 PART -1985

VOLTAGE GRADE : 6.35/11 KV (E) (A2XFY/2XFY, A2XWY/2XWY)

Nominal size of as per IS 8130 /84	Form of conductor circular	Nom Thickness of xlpe insulation	Min Thickness of pvc inner sheath	Strip Armoured Cable					Round Wire Armoured Cable					CURRENT RATING			
				Nom Dimension G.I.Flat strip	Min Thickness of pvc outer sheath	Approx overall Diameter of cable	Al.Approx weight of cable	Cu. Approx weight of cable	Nom. Dimension of GI Round Wire	Min Thickness of pvc outer sheath	Approx overall Diameter of cable	Al.Approx weight of cable	Cu. Approx weight of cable	Aluminium		Copper	
														ground	Air	Ground	Air
Sq.mm		mm	mm	mm	mm	mm	kg./km	kg./km	mm	mm	mm	kg./km	kg./km	Amps.	Amps.	Amps.	Amps.
25	Circular	3.60	0.40	4 x0.80	1.72	39	1950	2350	2.00	1.72	41	2600	2950	95	105	120	135
35	Circular	3.60	0.50	4 x0.80	1.72	41	2250	2750	2.00	1.88	44	2950	3450	115	125	145	165
50	Circular	3.60	0.50	4 x0.80	1.88	44	2550	3250	2.50	2.04	48	3650	4350	130	150	170	195
70	Circular	3.60	0.50	4 x0.80	1.88	48	2900	4000	2.50	2.04	51	4100	5150	160	190	210	240
95	Circular	3.60	0.60	4 x0.80	2.04	52	3450	4950	2.50	2.20	55	4750	6250	190	230	250	295
120	Circular	3.60	0.60	4 x0.80	2.20	55	3900	5850	2.50	2.36	58	5250	7200	220	260	280	335
150	Circular	3.60	0.60	4 x0.80	2.20	58	4350	6800	2.50	2.36	62	5850	8200	245	295	310	380
185	Circular	3.60	0.70	4 x0.80	2.36	62	5050	8050	3.15	2.52	67	7250	10200	275	335	350	430
240	Circular	3.60	0.70	4 x0.80	2.52	67	5950	9950	3.15	2.68	73	8300	12200	315	395	400	500
300	Circular	3.60	0.70	4 x0.80	2.68	72	6850	11900	3.15	2.84	77	9400	14400	355	450	445	570
400	Circular	3.60	0.70	4 x0.80	2.84	79	8200	14650	4.00	3.00	86	12100	18450	400	500	500	650

Cross-sectional view



1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
 2. Conductor Screening : Extruded Semiconductor Compound
 3. Insulation Material : XLPE (Cross linked polyethylene)
 4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
 5. Filler : PVC Filler
 6. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 7. Armoring : Single layer of Galvanized Steel Round Wire / Flat Strip
 8. Outer Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
- Colour of Outer Sheath : Black or any other color as per requirement