

AVOCAB

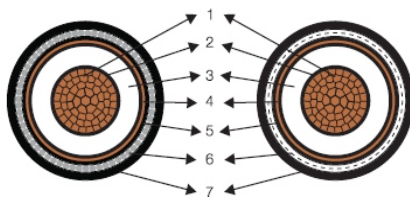
WIRES & CABLES

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

VOLTAGE GRADE : 3.8/6.6 KV (E) (A2XFay/2XFay, A2XWaY/2XWaY)

Nom.Size of conductor	Nom 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. insulatoin thickness	Min inner sheath thickness	Min Thickness of pvc outer sheath	Nom. Dia Meter Of Armoured Wire	Approx overall diameter of cable	Al. Approx Weight of cable	Cu. Approx Weight of cable	Aluminium		Copper		
													In ground at 30 C	In air at 40 C	In ground at 30 C	In air at 40 C	
sq.mm	mm	mm	kg./km	kg./km	mm	mm	mm	mm	mm	mm	kg./km	kg./km	Amps.	Amps.	Amps.	Amps.	
25	2.8	1.8	18.00	340	485	2.80	0.30	1.40	1.60	21	550	650	100	120	130	155	
35	2.8	2.0	20.00	440	645	2.80	0.30	1.40	1.60	22	600	800	120	145	155	185	
50	2.8	2.0	21.00	500	780	2.80	0.30	1.40	1.60	23	650	950	140	170	185	220	
70	2.8	2.0	23.50	615	1020	2.80	0.30	1.40	1.60	24	750	1150	175	215	225	275	
95	2.8	2.0	25.00	725	1285	2.80	0.30	1.40	1.60	26	900	1450	205	260	265	340	
120	2.8	2.0	27.50	870	1575	2.80	0.30	1.40	1.60	27	1000	1700	235	305	300	390	
150	2.8	2.0	28.50	985	1855	2.80	0.30	1.56	1.60	29	1150	2000	260	345	335	440	
185	2.8	2.0	30.50	1135	2220	2.80	0.30	1.56	1.60	31	1300	2350	295	395	380	510	
240	2.8	2.2	33.50	1380	2815	2.80	0.40	1.56	2.00	34	1600	3000	340	470	435	600	
300	3.0	2.2	36.50	1655	3450	3.00	0.40	1.56	2.00	37	1850	3650	385	540	490	680	
400	3.3	2.2	41.00	2080	4375	3.30	0.40	1.72	2.00	41	2300	4550	440	630	550	790	
500	3.5	2.4	44.00	2490	5430	3.50	0.50	1.88	2.00	46	2800	5700	495	730	610	910	
630	3.5	2.4	48.00	2975	6785	3.50	0.50	1.88	2.00	50	3350	7100	560	840	680	1030	
800	3.5	2.6	53.50	3620	8505	3.50	0.50	2.04	2.50	55	4150	8950	620	960	740	1140	
1000	3.6	2.8	57.50	4310	10430	3.60	0.60	2.20	2.50	59	4950	11000	680	1070	790	1250	

Cross-sectional view



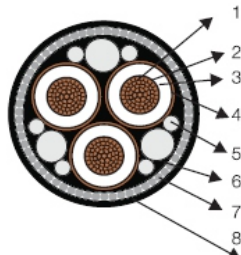
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
 2. Conductor Screening : Extruded Semiconducting Compound
 3. Insulation Material : XLPE (Cross linked polyethylene)
 4. Insulation Screening : Extruded Semiconducting Compound followed by hellically wrapped Copper Tape
 5. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
 6. Armouring : 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 : 3.8/6.6.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	mm	kg./km	kg./km	mm	mm	mm	kg./km	kg./km	Amps.	Amps.	Amps.	Amps.
25	Circular	2.80	0.40	4 x0.80	1.56	35	1650	2050	2.00	1.56	38	2300	2650	95	105	120	135
35	Circular	2.80	0.40	4 x0.80	1.72	38	1900	2450	2.00	1.72	40	2550	3050	115	125	145	165
50	Circular	2.80	0.40	4 x0.80	1.72	41	2200	2950	2.00	1.72	43	2950	3650	130	150	170	195
70	Circular	2.80	0.40	4 x0.80	1.88	44	2600	3700	2.00	1.88	47	3350	4400	160	190	210	240
95	Circular	2.80	0.40	4 x0.80	1.88	48	3050	4600	2.50	2.04	51	4250	5750	190	230	250	295
120	Circular	2.80	0.40	4 x0.80	2.04	51	3500	5450	2.50	2.04	55	4800	6700	220	260	280	335
150	Circular	2.80	0.40	4 x0.80	2.20	55	4000	6450	2.50	2.20	58	5350	7750	245	295	310	380
185	Circular	2.80	0.40	4 x0.80	2.20	58	4550	7600	2.50	2.36	62	6050.0	9050	275	335	350	430
240	Circular	2.80	0.40	4 x0.80	2.36	64	5450	9450	3.15	2.36	69	7700	11650	315	395	400	500
300	Circular	3.00	0.40	4 x0.80	2.52	69	6450	11550	3.15	2.68	74	8950	13900	355	450	445	570
400	Circular	3.30	0.40	4 x0.80	2.84	78	8000	14450	4.00	2.84	85	11850	18200	400	520	500	650

Cross-sectional view



1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
 2. Conductor Screening : Extruded Semiconducting Compound
 3. Insulation Material : Crosslinked Polyethylene (Xlpe)
 4. Insulation Screening : Extruded Semiconducting Compound Followed By Hellically Wrapped Copper Tape.
 5. Pvc Fillers
 6. Inner Sheath : Extruded Pvc
 7. Armouring : Single Layer Of Galvanized Flat Strip/ Round Wires.
 8. Outer Sheath : Pvc Type St-2 Of Is: 5831' – Options : Pvc Type St-2/ Fr Type/ Frls Type
- Colour Of Outer Sheath: Black. Options: Any Other Colours As Per Requirement