

AVOCAB

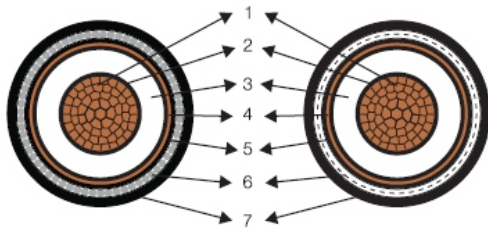
WIRES & CABLES

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

VOLATGE GRADE : 12.7/22 KV (E) (A2XFay/2XFaY, A2XWaY/2XWaY)

Nominal Size of Conductor	Nominal Thickness of xlpe insulation	UNARMoured CABLE				Round Wire Armoured Cable							CURRENT RATING			
		Nominal Thickness of pvc insulation	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	Alluminium		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	-	-	-	-	-	6.0	0.30	1.60	1.40	27	800	950	100	120	130	155
35	6	2.0	26.00	660	870	6.0	0.30	1.60	1.56	28	900	1100	120	145	155	185
50	6	2.0	27.00	730	1010	6.0	0.30	1.60	1.56	30	1000	1250	140	175	180	225
70	6	2.0	28.50	835	1235	6.0	0.30	1.60	1.56	31	1100	1500	170	220	215	280
95	6	2.2	31.00	985	1545	6.0	0.40	2.00	1.56	34	1350	1900	200	265	255	335
120	6	2.2	33.00	1120	1825	6.0	0.40	2.00	1.56	35	1500	2150	225	300	285	380
150	6	2.2	35.50	1215	2085	6.0	0.40	2.00	1.56	37	1600	2450	250	340	310	430
185	6	2.2	35.50	1370	2460	6.0	0.40	2.00	1.72	39	1800	2900	280	385	345	485
240	6	2.2	38.00	1600	3030	6.0	0.40	2.00	1.72	41	2050	3450	315	450	390	560
300	6	2.2	40.00	1815	3615	6.0	0.40	2.00	1.72	43	2300	4100	345	500	420	620
400	6	2.2	43.50	2180	4475	6.0	0.50	2.00	1.88	47	2750	5000	385	570	455	690
500	6	2.4	47.00	2610	5555	6.0	0.50	2.50	2.04	52	3400	6300	415	640	480	750
630	6	2.6	50.50	3105	6915	6.0	0.50	2.50	2.04	56	3950	7700	450	720	510	820
800	6	2.8	57.00	3815	8700	6.0	6.00	2.50	2.20	61	4750	9550	485	790	540	840
1000	6	3.0	61.00	4555	10675	6.0	6.00	2.50	2.36	65	5550	11550	510	850	550	940

Cross-sectional view



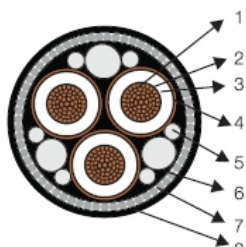
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
2. Conductor Screening : Extruded Semiconductor Compound
3. Insulation Material : XLPE (Cross linked polyethylene)
4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
5. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : PVC Type ST-2/FR Type/FRLS Type
6. 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 -2/1985

VOLTAGE GRADE :12.7/22 KV (E) (A2XFy/2XFY, A2XWY/2XWY)

Nominal Size of as per IS 8130 /84	Form of conductor circular	Strip Armoured Cable							Round Wire Armoured Cable					CURRENT RATING			
		Nominal Thickness of xlpe insulation	Nominal Thickness of pvc insulation	Nom Dimension of al Flat Wire	Min Thickness of pvc outer sheath	approx Diameter of cable	Al Approx Weight of cable	Cu Approx Weight of cable	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	Alluminium		Copper	
														In ground	In air	In ground	In 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	6.0	0.50	4 X0.80	2.04	50	2900	3250	2.50	2.20	54	4200	4500	90	110	120	135
35	circular	6.0	0.60	4 X0.80	2.04	52	3200	3750	2.50	2.20	56	4600	5050	110	130	145	165
50	circular	6.0	0.60	4 X0.80	2.20	56	3350	4350	2.50	2.36	60	5050	5700	130	155	170	200
70	circular	6.0	0.60	4 X0.80	2.36	59	3850	5200	2.50	2.36	63	5600	6600	160	190	205	245
95	circular	6.0	0.60	4 X0.80	2.36	63	4700	6150	3.15	2.52	68	7000	8350	190	230	245	300
120	circular	6.0	0.70	4 X0.80	2.52	66	5250	7150	3.15	2.68	71	7550	9400	215	265	275	340
150	circular	6.0	0.70	4 X0.80	2.68	70	5800	8150	3.15	2.68	75	8200	10500	240	300	305	385
185	circular	6.0	0.70	4 X0.80	2.68	73	6400	9400	3.15	2.84	79	9100	11950	270	340	345	435
240	circular	6.0	0.70	4 X0.80	2.84	78	7400	11400	4.00	3.00	85	11350	15200	310	400	395	510
300	circular	6.0	0.70	4 X0.80	3.00	83	8350	13350	4.00	3.00	90	12350	17250	350	455	440	580
400	circular	6.0	0.70	4 X0.80	3.00	90	9700	16150	4.00	3.00	97	14100	20400	395	530	495	660

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. Armouring : 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