

AVOCAB

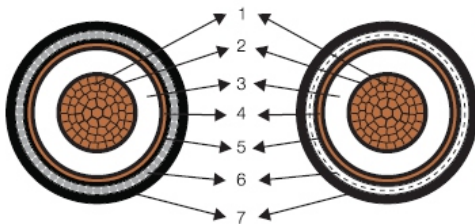
WIRES & CABLES

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

VOLTAGE GRADE: 11/11 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	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	5.50	-	-	-	-	5.50	0.30	1.60	1.40	26	800	900	100	120	130	155	
35	5.50	2.0	24.5	605	810	5.50	0.30	1.60	1.56	27	850	1050	120	145	155	185	
50	5.50	2.0	25.5	665	945	5.50	0.30	1.60	1.56	29	950	1200	140	170	185	220	
70	5.50	2.0	27.5	770	1170	5.50	0.30	1.60	1.56	30	1050	1450	175	215	225	275	
95	5.50	2.0	29.00	890	1445	5.50	0.30	2.00	1.56	32	1200	1850	205	260	265	340	
120	5.50	2.2	31.50	1045	1750	5.50	0.40	2.00	1.56	34	1400	2100	235	305	300	390	
150	5.50	2.2	32.50	1135	2010	5.50	0.40	2.00	1.56	36	1550	2400	260	345	335	440	
185	5.50	2.2	34.00	1290	2380	5.50	0.40	2.00	1.56	38	1700	2800	295	395	380	510	
240	5.50	2.2	36.50	1515	2945	5.50	0.40	2.00	1.72	40	2000	3400	340	470	435	600	
300	5.50	2.2	38.50	1730	3525	5.50	0.40	2.00	1.72	42	2250	4000	385	540	490	680	
400	5.50	2.4	42.00	2080	4375	5.50	0.50	2.00	1.88	46	2700	4950	440	630	550	790	
500	5.50	2.4	45.00	2460	5400	5.50	0.50	2.50	2.04	51	3300	6200	495	730	610	910	
630	5.50	2.6	49.00	2990	6800	5.50	0.50	2.50	2.04	55	3900	7600	560	840	680	1030	
800	5.50	2.8	55.50	3690	8570	5.50	0.60	2.50	2.20	60	4650	9450	620	960	740	1140	
1000	5.50	2.8	59.00	4360	10480	5.50	0.60	2.50	2.36	64	5400	11450	680	1070	790	1250	

Cross-sectional view



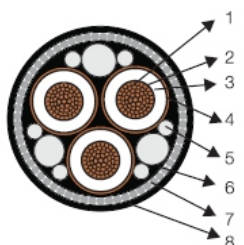
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
2. Conductor Screening: Extruded Semiconducting Compound
3. Insulation Material : XLPE (Cross linked polyethylene)
4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
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 -1985

VOLTAGE GRADE : 11/11 KV (UE) (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	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	5.50	0.50	4 x0.80	1.88	48	2700	3050	2.50	2.04	51	3900	4200	95	105	120	135
35	Circular	5.50	0.50	4 x0.80	2.04	50	3000	3500	2.50	2.20	54	4250	4700	115	125	145	165
50	Circular	5.50	0.60	4 x0.80	2.20	53	3400	4100	2.50	2.20	57	4700	5400	130	150	170	195
70	Circular	5.50	0.60	4 x0.80	2.20	57	3850	4900	2.50	2.36	61	5300	6300	160	190	210	240
95	Circular	5.50	0.60	4 x0.80	2.36	61	4400	5900	3.15	2.52	66	6600	8000	190	230	250	295
120	Circular	5.50	0.70	4 x0.80	2.52	65	4950	6850	3.15	2.52	69	7200	9050	220	260	280	335
150	Circular	5.50	0.70	4 x0.80	2.52	68	5500	7850	3.15	2.68	72	7800	10150	245	295	310	380
185	Circular	5.50	0.70	4 x0.80	2.68	71	6100	9100	3.15	2.84	76	8650	11550	275	335	350	430
240	Circular	5.50	0.70	4 x0.80	2.84	76	7100	11050	3.15	3.00	81	9800	13700	315	395	400	500
300	Circular	5.50	0.70	4 x0.80	3.00	81	8100	13100	4.00	3.00	88	12000	16900	355	450	445	570
400	Circular	5.50	0.70	4 x0.80	3.00	88	9400	15800	4.00	3.00	95	13600	19900	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 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