

AVOCAB

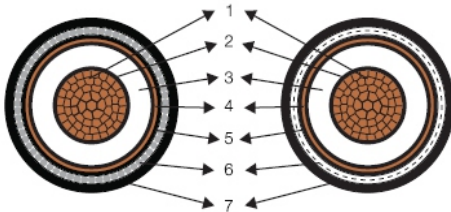
WIRES & CABLES

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

VOLTAGE GRADE: 19/33 KV (E) (A2XFay/2XFaY, A2Way/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 insulatoin thickness	Minimum 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	8.80	2.2	-	-	-	8.80	0.40	2.00	1.56	34	1250	1400	100	120	130	155	
35	8.80	2.2	-	-	-	8.80	0.40	2.00	1.56	35	1350	1500	120	145	155	185	
50	8.80	2.2	34.00	1065	1345	8.80	0.40	2.00	1.56	37	1450	1700	140	175	180	225	
70	8.80	2.2	35.50	1185	1590	8.80	0.40	2.00	1.56	38	1550	1950	170	220	215	280	
95	8.80	2.2	37.00	1325	1885	8.80	0.40	2.00	1.72	40	1750	2300	200	265	255	335	
120	8.80	2.2	39.00	1480	2185	8.80	0.40	2.00	1.72	41	1900	2550	225	300	285	380	
150	8.80	2.2	40.00	1580	2450	8.80	0.40	2.00	1.72	43	2050	2900	250	340	310	430	
185	8.80	2.4	42.00	1800	2885	8.80	0.50	2.00	1.72	45	2300	3300	280	385	345	485	
240	8.80	2.4	44.50	2050	3485	8.80	0.50	2.00	1.88	47	2550	3950	315	450	390	560	
300	8.80	2.4	47.00	2340	4135	8.80	0.50	2.50	2.04	50	3000	4750	345	500	420	620	
400	8.80	2.6	50.00	2690	4985	8.80	0.50	2.50	2.04	54	3400	5650	385	570	455	690	
500	8.80	2.8	53.50	3155	6100	8.80	0.60	2.50	2.20	59	4050	6900	415	640	480	750	
630	8.80	2.8	57.00	3690	7495	8.80	0.60	2.50	2.36	63	4700	8400	450	720	510	820	
800	8.80	3.0	63.50	4465	9350	8.80	0.60	2.50	2.36	67	5400	10200	485	790	540	840	
1000	8.80	3.2	67.50	5255	11375	8.80	0.70	3.15	2.52	72	6550	12550	510	850	550	940	

Cross-sectional view



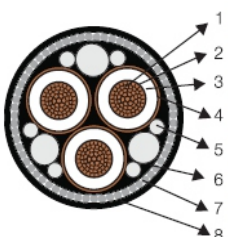
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
2. Conductor Screening : Extruded Semiconductor Compound
3. Insulation Material : XLPE (Cross linked polyethylene)
4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape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

VOLTAGE GRADE : 19/33 KV (E) (A2XFY/2XFY, A2WY/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	8.80	0.70	4 x0.80	2.36	63	4350	4650	3.15	2.52	68	6600	6800	90	110	120	135
35	Circular	8.80	0.70	4 x0.80	2.52	66	4750	5200	3.15	2.68	71	7050	7400	110	130	145	165
50	Circular	8.80	0.70	4 x0.80	2.52	69	5150	5800	3.15	2.68	74	7550	8100	130	155	170	200
70	Circular	8.80	0.70	4 x0.80	2.68	72	5700	6700	3.15	2.84	77	8250	9200	160	190	205	245
95	Circular	8.80	0.70	4 x0.80	2.84	76	6350	7800	3.15	3.00	81	9050	10450	190	230	245	300
120	Circular	8.80	0.70	4 x0.80	2.84	79	6900	8700	4.00	3.00	86	10800	12500	215	265	275	340
150	Circular	8.80	0.70	4 x0.80	3.00	83	7550	9850	4.00	3.00	89	11550	13750	240	300	305	385
185	Circular	8.80	0.70	4 x0.80	3.00	86	9000	11100	4.00	3.00	93	12300	15100	270	340	345	435
240	Circular	8.80	0.70	4 x0.80	3.00	91	9100	13000	4.00	3.00	97	13500	17250	310	400	395	510
300	Circular	8.80	0.70	4 x0.80	3.00	96	10100	15050	4.00	3.00	102	14700	19550	350	455	440	580
400	Circular	8.80	0.70	4 x0.80	3.00	103	11600	17950	4.00	3.00	109	16400	22600	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. Options: Any Other Colours As Per Requirement