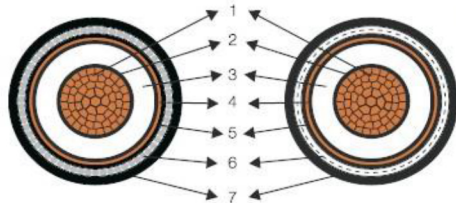


**SINGLE CORE ALUMINIUM & COPPER CONDUCTOR ,XLPE INSULATED,
UNARMoured & ARMoured CABLE CONFORMING TO IS 7098 PART -2 /1985**

VOLTAGE GRADE : 3.3 KV (E & UE) (A2XFaY/2XFay, A2XWaY/2XWaY) (SCREENED)

ROUND WIRE ARMoured								CURRENT RATING			
Nom.Size of conductor	Nom. insulatoin thickness	Min inner sheath thickness	Nom diameter of cable armoure wire	Nom outer sheath thickness	Approx overall 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	mm	mm	kg./km	kg/km	Amps.	Amps.	Amps.	Amps.
25	2.50	0.30	1.60	1.40	20	500	650	100	110	130	145
35	2.50	0.30	1.60	1.40	21	550	750	120	135	155	175
50	2.50	0.30	1.60	1.40	22	650	900	140	165	185	215
70	2.50	0.30	1.60	1.40	24	750	1150	175	210	225	270
95	2.50	0.30	1.60	1.40	25	850	1400	205	255	265	330
120	2.50	0.30	1.60	1.40	27	950	1650	235	295	300	380
150	2.50	0.30	1.60	1.56	29	1100	1950	260	335	335	430
185	2.50	0.30	1.60	1.56	30	1250	2300	295	390	380	495
240	2.50	0.40	2.00	1.56	34	1550	2950	340	460	435	590
300	2.50	0.40	2.00	1.56	36	1800	3550	385	530	490	670
400	2.60	0.40	2.00	1.72	40	2200	4450	440	620	550	780
500	2.80	0.40	2.00	1.72	44	2650	5550	495	730	610	900
630	3.00	0.50	2.00	1.88	49	3250	7000	560	840	680	1020
800	3.30	0.50	2.50	2.04	55	4100	8900	620	960	740	1140
1000	3.50	0.60	2.50	2.20	59	4950	10950	670	1070	780	1250

Cross-sectional view



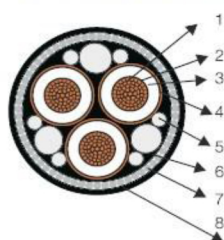
1. Conductor : Stranded Compacted Circular Aluminum / Copper as per Class-2 of IS: 8130
2. Conductor Screening : Extruded Semiconductor Compound
3. Insulation Material : XLPE (Cross linked polyethylene)
4. Insulation Screening : Extruded Semiconducting Compound followed by helically wrapped Copper Tape
5. Inner Sheath : Extruded PVC Type ST-2 as per IS: 5831; Options : 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 : 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 : 3.3 KV (E & UE) (A2XFY/2XFy, A2XWY/2XWY) (SCREENED)

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 armoured 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	2.20	0.40	4 x0.80	1.56	32	1450	1850	2.00	1.56	35	2000	2400	94	99	120	125
35	Circular	2.20	0.40	4 x0.80	1.56	35	1700	2250	2.00	1.72	37	2300	2850	115	120	145	155
50	Circular	2.20	0.40	4 x0.80	1.72	38	2000	2750	2.00	1.72	40	2650	3350	135	145	170	190
70	Circular	2.20	0.50	4 x0.80	1.72	41	2350	3500	2.00	1.88	44	3100	4200	165	185	210	235
95	Circular	2.20	0.50	4 x0.80	1.88	45	2800	4350	2.50	2.04	49	3950	5500	195	225	250	290
120	Circular	2.20	0.50	4 x0.80	2.04	48	3250	5200	2.50	2.04	52	4500	6350	220	255	285	330
150	Circular	2.20	0.60	4 x0.80	2.04	52	3700	6150	2.50	2.20	56	5000	7400	245	295	315	375
185	Circular	2.20	0.60	4 x0.80	2.20	56	4300	7350	2.50	2.36	60	5750	8750	280	340	355	435
240	Circular	2.20	0.60	4 x0.80	2.36	61	5150	9200	2.50	2.36	64	6600	10600	320	400	410	510
300	Circular	2.20	0.70	4 x0.80	2.52	66	6050	11100	3.15	2.68	71	8350	13350	360	460	460	590
400	Circular	2.20	0.70	4 x0.80	2.68	73	7300	13800	3.15	2.84	78	9850	16300	410	535	520	670

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