



- NOTES:**
- EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL COMPLY WITH ASI429.
  - THE CABLE SHALL BE PERMANENTLY MARKED WITH MANUFACTURERS IDENTIFICATION, YEAR OF MANUFACTURE, VOLTAGE RATING, CONDUCTOR MATERIAL AND CROSS SECTIONAL AREA, INSULATION MATERIAL AND TERMITE PROTECTION AT INTERVALS ALONG ITS OUTER SHEATH.

- THE CABLE SHALL ALSO HAVE CONSECUTIVE NUMBERS PRINTED ALONG ITS OUTER SHEATH NOMINALLY SPACED AT ONE METER INTERVALS.
- THE CABLE SHALL BE WOUND ON ITS DRUM TO ENSURE THE LEGIBILITY OF NOTES 2 AND 3.
- THE CABLE SHALL BE "DRY CURED".
- ALL RATINGS, EXCEPT FOR 630SQMM CABLES, ARE BASED ON CABLES IN TOUCHING TREFOIL CONFIGURATION WITH 40°C AMBIENT AIR TEMPERATURE, 25°C SOIL TEMPERATURE, 0.8M BURIAL DEPTH AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W
- 630SQMM CABLE RATINGS BASED ON 150MM DIAMETER HD CONDUITS IN TOUCHING TREFOIL CONFIGURATION WITH ONE CABLE PER CONDUIT, 40°C AMBIENT AIR TEMPERATURE, 25°C SOIL TEMPERATURE, 0.8M BURIAL DEPTH AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W
- ALL CABLES SHALL BE FITTED WITH MASTIC LINED HEATSHRINK END CAPS AT ALL TIMES EXCEPT WHEN THE CABLE IS IN THE JOINING OR TERMINATION PROCESS.

ITEM NUMBER	UNITS	1	2	3	4	5
STOCK CODE	-	286005	286013	286021	286039	500984
CONDUCTOR AREA	sq. mm	35	95	240	400	630
CONDUCTOR DIAMETER	mm	7.0	11.5	18.6	23.6	29.9
CONDUCTOR SCREEN SEMI-CON	mm	0.8	0.8	0.8	0.8	0.8
INSULATION THICKNESS	mm	3.4	3.4	3.4	3.4	3.4
DIAMETER OVER INSULATION	mm	15.4	19.9	27.0	32.0	38.2
INSULATION SCREEN SEMI-CON	mm	0.8	0.8	1.0	1.0	1.2
EARTH SCREEN AREA	sq. mm	23	65	90	90	90
EARTH SCREEN STRANDING	No/mm	41/0.85	45/1.35	49/1.53	49/1.53	40/1.7
EARTH SCREEN FAULT RATING	KA.1sec	3.3	9.2	13.1	13.1	13.1
WATER BLOCKING TAPE THICKNESS	mm	0.3	0.3	0.3	0.3	0.3
HDPE SHEATH THICKNESS	mm	1.8	1.8	2.0	2.2	2.4
DIAMETER OVER HDPE	mm	24.3	30.9	38.6	43.9	49.4
NYLON SHEATH THICKNESS	mm	0.4	0.4	0.4	0.4	0.4
PVC SHEATH THICKNESS	mm	0.6	1.0	1.2	1.5	1.5
OVERALL CABLE DIAMETER	mm	26.4	33.0	41.1	46.5	53.6
CABLE LENGTH ON DRUM	M	1000	1000	500	500	750
BENDING RADIUS DURING INSTALL	mm	800	1000	1200	1350	1500
BENDING RADIUS INSTALLED	mm	550	650	800	900	1000
WEIGHT OF CABLE	KG/KM	-	-	-	-	3974
CONDUCTOR FORM	COMPACTED, H68 ALUMINIUM, ROUND, WATER BLOCKED					
AC RESISTANCE@ 50HZ, 90°C	Ohm/km	1.11	0.411	0.161	0.102	0.062
INDUCTIVE REACTANCE	Ohm/km	0.161	0.14	0.126	0.119	0.128
POSITIVE SEQUENCE CAPACITANCE	uF/Km	0.220	0.311	0.445	0.548	0.664
ZERO SEQUENCE RESISTANCE	Ohm/km	1.66	0.614	0.395	0.348	0.315
ZERO SEQUENCE REACTANCE	Ohm/km	0.078	0.06	0.046	0.041	0.038
CURRENT RATING IN GROUND	A	140	235	375	465	608
CURRENT RATING IN AIR	A	140	260	450	600	777
CURRENT RATING IN DUCTS	A	135	225	345	420	515
3Ø VOLTAGE DROP@ 50Hz, 90°C	mV/A.M	1.94	0.74	0.33	0.24	0.24

TAG No.	DESCRIPTION
1	CONDUCTOR - COMPACTED H68 ALUMINIUM - WATER BLOCKED
2	EXTRUDED SEMI-CONDUCTIVE SCREEN BONDED TO INSULATION - NON-FREE STRIPPABLE
3	CROSS LINKED POLYETHYLENE INSULATION (DRY CURED)
4	EXTRUDED FREE STRIPPING SEMI-CONDUCTIVE MATERIAL
5	WATER BLOCKING TAPE
6	CONCENTRIC HELICAL EARTH SCREEN - COPPER
7	HDPE SHEATH
8	ANTI-TERMITE JACKET - EXTRUDED NYLON 11 OR 12
9	SACRIFICIAL PVC SHEATH V-90 - COLOUR BLACK

NO	DESCRIPTION	DRN	DATE	CKD	APPD
3	TABLES AND NOTES UPDATED. ITEM 5, NOTE 8 ADDED	A.T.	FEB'13	B.C.	B.C.
2	WATER BLOCKING TAPE MOVED TO OUTSIDE OF EARTH SCREEN	J.C.	JUNE'10	A.T.	S.C.
AMENDMENTS					



DES	-	POWER STANDARD DRAWING		
DRN	JAL	<b>CABLES</b> <b>ALUMINIUM - SINGLE CORE</b> <b>6.35/11KV - XLPE - WATER BLOCKED</b> <b>HDPE SHEATHED NYLON JACKETED</b>		
CKD	SCM			
APPD	PJD			
SCALE	no scale			
ISSUED	JUL'95	A3	DRAWING NUMBER	S2-1-1-25
ALL DIM. IN mm				
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		