



NOTES:

1. EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL COMPLY WITH AS1429.
2. 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.
3. THE CABLE SHALL ALSO HAVE CONSECUTIVE NUMBERS PRINTED ALONG ITS OUTER SHEATH NOMINALLY SPACED AT ONE METER INTERVALS,
4. THE CABLE SHALL BE WOUND ON ITS DRUM TO ENSURE THE LEGIBILITY OF NOTE 2 AND 3.
5. THE CABLE SHALL BE "DRY CURED".
6. ALL RATINGS, EXCEPT OF 630SQMM CABLES, ARE BASED ON CABLES IN TOUCHING TREFOIL CONFIGURATION, 40°C AMBIENT AIR TEMPERATURE, 25°C SOIL TEMPERATURE, 0.8M BURIAL DEPTH AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W.
7. 630SQMM CABLES RATINGS BASED ON 150MM DIAMETER HD CONDUIT 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.
8. ALL CABLE ENDS SHALL BE FITTED WITH MASTIC LINED HEATSHRINK END CAPS AT ALL TIMES EXCEPT WHEN THE CABLE IS IN THE JOINTING OR TERMINATING PROCESS.

ITEM NUMBER	UNITS	1	2	3
STOCK CODE	-	411618	500972	502180
CONDUCTOR AREA	sq. mm	240	630	400
CONDUCTOR DIAMETER	mm	18.0	29.9	23.5
CONDUCTOR SCREEN SEMI-CON	mm	0.8	0.9	0.8
INSULATION THICKNESS	mm	5.5	5.5	5.5
DIAMETER OVER INSULATION	mm	31.8	42.7	36.1
INSULATION SCREEN SEMI-CON	mm	1.0	1.2	1.0
EARTH SCREEN AREA	sq. mm	90	90	90
EARTH SCREEN STRANDING	No/mm	49/1.53	49/1.53	49/1.53
EARTH SCREEN FAULT RATING	KA.1sec	13.1	13.1	13.1
WATER BLOCKING TAPE THICKNESS	mm	0.3	0.3	0.3
HDPE SHEATH THICKNESS	mm	2.1	2.4	2.2
DIAMETER OVER HDPE	mm	42.8	53.1	49
NYLON SHEATH THICKNESS	mm	0.5	0.5	0.5
PVC SHEATH THICKNESS	mm	1.0	1.8	1.0
OVERALL CABLE DIAMETER	mm	46.6	57.7	54.0
CABLE LENGTH ON DRUM	M	500	750	500
BENDING RADIUS DURING INSTALL	mm	1350	1600	1530
BENDING RADIUS INSTALLED	mm	900	1050	1020
WEIGHT OF CABLE	KG/KM	-	-	3550
CONDUCTOR FORM	COMPACTED, H86 ALUMINIUM, ROUND, WATER BLOCKED			
AC RESISTANCE@ 50HZ, 90°C	Ohm/km	0.161	0.062	0.101
INDUCTIVE REACTANCE	Ohm/km	0.116	0.144	0.118
POSITIVE SEQUENCE CAPACITANCE	uF/Km	0.298	0.444	0.401
ZERO SEQUENCE RESISTANCE	Ohm/km	0.395	0.316	0.289
ZERO SEQUENCE REACTANCE	Ohm/km	0.055	0.043	0.0534
CURRENT RATING IN GROUND	A	370	612	472
CURRENT RATING IN AIR	A	420	783	588
CURRENT RATING IN DUCTS	A	325	514	415
3Ø VOLTAGE DROP@ 50Hz, 90°C	mV/A.M	0.34	0.272	

TAG No.	DESCRIPTION
1	CONDUCTOR - 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 V-90 PVC SHEATH - COLOUR BLACK

NO	DESCRIPTION	DRN	DATE	CKD	APPD
2	ITEM 3 ADDED	C.M.	NOV'13	B.C.	B.C.
1	TABLE AND NOTES UPDATED, ITEM 2 ADDED	A.T.	FEB'13	B.C.	B.C.
0	ISSUED FOR CONSTRUCTION	J.C.	SEP'11	B.C.	S.C.
AMENDMENTS					



DES	-	POWER STANDARD DRAWING	
DRN	JAL	CABLES ALUMINIUM - SINGLE CORE 12.7/22KV - XLPE - WATER BLOCKED HDPE SHEATHED NYLON JACKETED	
CKD	SCM		
APPD	PJD		
SCALE	no scale		
ISSUED	JUL'95	A3	DRAWING NUMBER S2-1-1-38
ALL DIM. IN mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	

