



NOTES:

1. EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL COMPLY WITH AS1429.
2. THE CABLE SHALL BE PERMANENTLY MARKED WITH MANUFACTURERS IDENTIFICATION, YEAR OF MANUFACTURER, 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 THE INFORMATION IN NOTES 2 AND 3.
5. THE CABLE SHALL BE "DRY CURED".
6. ALL RATINGS BASED ON TOUCHING TREFOIL CONFIGURATION WITH 40°C AMBIENT AIR TEMPERATURE, BURIAL DEPTH OF 0.8M, SOIL TEMPERATURE OF 25°C AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W
7. 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.
8. 800sqmm CABLE SHALL BE COMPACTED, WATER BLOCKED, MILLIKEN SECTOR

ITEM NUMBER	units	1	2	3	4
STOCK CODE	-	500960	414409	501797	501770
CONDUCTOR AREA	sq. mm	240	300	400	800
CONDUCTOR DIAMETER	mm	18.6	20.6	22.8	34.4
CONDUCTOR SCREEN SEMI-CON	mm	0.8	0.8	0.3	0.3
INSULATION THICKNESS	mm	3.4	3.4	3.4	3.4
DIAMETER OVER INSULATION	mm	28.4	30.2	31	43
INSULATION SCREEN SEMI-CON	mm	1.0	1.0	0.6	0.6
EARTH SCREEN AREA	sq. mm	90	90	90	90
EARTH SCREEN STRANDING	No/mm	49/1.53	49/1.53	49/1.53	49/1.53
EARTH SCREEN FAULT RATING	KA/sec	13.1	13.1	13.1	13.1
WATER BLOCKING TAPE THICKNESS	mm	0.3	0.3	0.3	0.3
HDPE SHEATH THICKNESS	mm	2.1	2.1	2.2	2.5
DIAMETER OVER HDPE	mm	35.6	42.9	43	55
NYLON SHEATH THICKNESS	mm	0.4	0.4	0.4	0.4
PVC SHEATH THICKNESS	mm	1.0	1.0	1.4	1.6
OVERALL CABLE DIAMETER	mm	40.9	44.7	45.5	58
CABLE LENGTH ON DRUM	M	500	500	1000	500
BENDING RADIUS DURING INSTALL	mm	1100	1300	1260	1635
BENDING RADIUS INSTALLED	mm	750	900	910	1160
WEIGHT OF CABLE	KG/KM	-	-	5338	9779
CONDUCTOR FORM	COMPACTED, COPPER, ROUND, WATER BLOCKED				NOTE 8.
AC RESISTANCE@ 50HZ, 90°C	Ohm/km	0.0981	0.0786	0.063	0.035
INDUCTIVE REACTANCE	Ohm/km	0.106	0.114	0.096	0.087
POSITIVE SEQUENCE CAPACITANCE	uF/Km	0.458	0.507	0.595	0.86
ZERO SEQUENCE RESISTANCE	Ohm/km	0.346	0.331	0.115	0.094
ZERO SEQUENCE REACTANCE	Ohm/km	0.0456	0.0434	0.306	0.278
CURRENT RATING IN GROUND	A	485	540	631	846
CURRENT RATING IN AIR	A	525	600	672	900
CURRENT RATING IN DUCTS	A	405	465	769	1107
3Ø VOLTAGE DROP@ 50Hz, 90°C	mV/A.M	-	-	-	-

TAG No.	DESCRIPTION
1	CONDUCTOR - COPPER - 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 EARTH SCREEN COPPER
7	HDPE SHEATH
8	ANTI-TERMITE JACKET - EXTRUDED NYLON 11 OR 12
9	SACRIFICIAL 5V-90 PVC SHEATH - COLOUR BLACK

NO	DESCRIPTION	DRN	DATE	CKD	APPD
1	ITEM 3 & 4 ADDED	C.M.	JAN'14	B.C.	B.C.
1	NOTES AND TABLE DATA UPDATED. 240SQMM CABLE ADDED	A.T.	FEB'13	B.C.	B.C.
0	ISSUED FOR CONSTRUCTION	C.C	AUG'11	A.T.	S.C.
AMENDMENTS					



DES	-	POWER STANDARD DRAWING		
DRN	JAL	CABLES COPPER - SINGLE CORE 6.35/11KV - XLPE - WATER BLOCKED HDPE SHEATHED NYLON JACKETED		
CKD	SCM			
APPD	PJD			
SCALE	no scale			
ISSUED	JUL'95	A3	DRAWING NUMBER	S02-1-1-37
ALL DIM. IN	mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		