



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 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 CAPS AT ALL TIMES EXCEPT WHEN THE CABLE IS IN THE JOINTING OR TERMINATION PROCESS.

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 5V90 PVC SHEATH - COLOR BLACK

ITEM NUMBER	UNITS	1	2	3
STOCK CODE	-	286047	286054	286062
CONDUCTOR AREA	sq. mm	35	120	240
CONDUCTOR DIAMETER	mm	7.2	13.5	19.2
CONDUCTOR SCREEN SEMI-CON	mm	0.8	0.8	0.8
INSULATION THICKNESS	mm	5.5	5.5	5.5
DIAMETER OVER INSULATION	mm	19.8	26.1	31.8
INSULATION SCREEN SEMI-CON	mm	0.8	1.0	1.0
EARTH SCREEN AREA	sq. mm	23	90	90
EARTH SCREEN STRANDING	No/mm	41/0.85	49/1.53	49/1.53
EARTH SCREEN FAULT RATING	KA/sec	3.3	13.1	13.1
WATER BLOCKING TAPE THICKNESS	mm	0.3	0.3	0.3
HDPE SHEATH THICKNESS	mm	1.8	1.9	2.1
DIAMETER OVER HDPE	mm	27.5	35.5	41.8
NYLON SHEATH THICKNESS	mm	0.4	0.5	0.5
PVC SHEATH THICKNESS	mm	0.5	1.0	1.0
OVERALL CABLE DIAMETER	mm	29.3	38.5	44.8
CABLE LENGTH ON DRUM	M	1000	1000	500
BENDING RADIUS DURING INSTALL	mm	850	1100	1300
BENDING RADIUS INSTALLED	mm	600	750	900
WEIGHT OF CABLE	KG/KM	-	-	-
CONDUCTOR FORM	COMPACTED, COPPER, ROUND, WATER BLOCKED			
AC RESISTANCE@ 50HZ, 90°C	Ohm/km	0.668	0.196	0.098
INDUCTIVE REACTANCE	Ohm/km	0.158	0.127	0.114
POSITIVE SEQUENCE CAPACITANCE	uF/Km	0.157	0.236	0.306
ZERO SEQUENCE RESISTANCE	Ohm/km	1.05	0.423	0.346
ZERO SEQUENCE REACTANCE	Ohm/km	0.073	0.066	0.054
CURRENT RATING IN GROUND	A	170	335	475
CURRENT RATING IN AIR	A	180	375	560
CURRENT RATING IN DUCTS	A	170	305	415
3Ø VOLTAGE DROP@ 50Hz, 90°C	mV/A.M	-	-	-

NO	DESCRIPTION	DRN	DATE	CKD	APPD
3	NOTES AND TABLE UPDATED	A.T.	FEB'13	B.C.	B.C.
2	WATER BLOCKING TAPE MOVED TO OUT SIDE OF EARTH SCREEN	J.C.	MAY'10	A.T.	S.C.
1	TAG NO 8 COLOUR AMMENDED	RGI	APR'01	*	FRR
AMENDMENTS					



DES	-	POWER STANDARD DRAWING		
DRN	JAL	CABLES COPPER - 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	S02-1-1-26
ALL DIM. IN mm				
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		