



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, VOILTAGE 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 NOTES 2 AND 3.
5. THE CABLE SHALL BE "DRY CURED".
6. ALL RATINGS, EXCEPT FOR 630SQMM CABLES, ARE BASED ON CABLES ON 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 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.
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	4	5
STOCK CODE	-	-	413426			
CONDUCTOR AREA	sq.mm	240	630			
CONDUCTOR DIAMETER	mm	18.1	29.9			
CONDUCTOR SCREEN SEMI-CON	mm	0.3	0.3			
INSULATION THICKNESS	mm	5.5	5.5			
DIAMETER OVER INSULATION	mm	29.7	41.5			
INSULATION SCREEN SEMI-CON	mm	1.0	1.0			
EARTH SCREEN AREA	sq.mm	90	90			
EARTH SCREEN STRANDING	No/mm	49/1.53	49/1.53			
EARTH SCREEN FAULT RATING	KA/sec	13.1	13.1			
WATER BLOCKING TAPE THICKNESS	mm	0.3	0.3			
HDPE SHEATH THICKNESS	mm	2.2	2.4			
OVERALL CABLE DIAMETER	mm	42.2	52.3			
CABLE LENGTH ON DRUM	M	500	750			
BENDING RADIUS DURING INSTALL	mm	1100	1350			
BENDING RADIUS INSTALLED	mm	650	800			
WEIGHT OF CABLE	KG/KM	2383	-			
CONDUCTOR FORM	COMPACTED, H68 ALUMINIUM, ROUND, WATER BLOCKED					
AC RESISTANCE@ 50HZ, 90°C	Ohm/km	0.160	0.062			
INDUCTIVE REACTANCE	Ohm/km	0.112	0.128			
POSITIVE SEQUENCE CAPACITANCE	uF/Km	0.310	0.444			
ZERO SEQUENCE RESISTANCE	Ohm/km	0.423	0.316			
ZERO SEQUENCE REACTANCE	Ohm/km	0.056	0.043			
CURRENT RATING IN GROUND	A	380	619			
CURRENT RATING IN AIR	A	455	796			
CURRENT RATING IN DUCTS	A	350	525			
3Ø VOLTAGE DROP@ 50Hz, 90°C	mV/A.M	0.340	0.247			

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
8	HDPE-60 OUTER SHEATH WITH .12% CYPERMETHRIN W/W

NO	DESCRIPTION	DRN	DATE	CKD	APPD
0	DATA EXTRACTED FROM S02-1-1-36, ITEM 5, NOTE 8 ADDED	A.T.	FEB'13	B.C.	B.C.
AMENDMENTS					

DES A. TAYLOR
DRN J. COPPINS
CKD B. CHEUNG
APPD S.C.
SCALE N.T.S.

POWER STANDARD DRAWING

CABLES
ALUMINIUM - SINGLE CORE - 22KV
CHEMICAL ANTI-TERMITE (CYPERMETHRIN)

ISSUED JULY'12

ALL DIM. IN mm

DRAFTING STANDARD TO A.S.1100

A3

DRAWING NUMBER
S02-1-1-39

CAD PRODUCT - DO NOT AMEND MANUALLY