



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 neutral screen copper
7	hdpe sheath
8	Anti-termite jacket - extruded nylon 11 or 12 - colour natural (clear)
9	Sacrificial PVC sheath - colour black

**NOTES**

- EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL COMPLY WITH AS1429.
- THE CABLE SHALL BE PERMANENTLY MARKED WITH MANUFACTURERS IDENTIFICATION, YEAR OF MANUFACTURE AND VOLTAGE RATING AT INTERVALS ALONG THE OUTER PVC SHEATH OF THE CABLE.
- THE CABLE SHALL ALSO HAVE ITS LENGTH PRINTED AT INTERVALS ALONG THE SHEATH, CONSISTING OF CONSECUTIVE NUMBERS NOMINALLY SPACED AT ONE METRE.
- CABLE TO BE WOUND ON DRUM IN SUCH A FASHION AS TO ENSURE LEGIBILITY OF ABOVE INFORMATION IN NOTES 2 AND 3.
- \* DENOTES THAT THESE VALUES ARE FOR A TREFOIL TOUCHING ARRANGEMENT.
- THE CABLE MUST BE 'DRY CURED' (IN LIEU OF 'STEAM CURING').

ITEM NUMBER	units	1			
STOCK CODE	-	414409			
Conductor Area (nominal)	sq. mm	300			
Conductor Diameter (nominal)	mm	20.6			
Insulation Thickness (nominal)	mm	3.4			
Diameter over Insulation (nominal)	mm	30.2			
Semicon Thickness (nominal)-conductor screen	mm	0.8			
Semicon Thickness (nominal)-insulation screen	mm	1.0			
Neutral Screen Area (minimum)	sq. mm	90			
Number and Diameter of screen wires (minimum)	N <sup>o</sup> /mm	49/1.53			
hdpe Sheath Thickness (nominal) - inner	mm	2.1			
Diameter over hdpe Sheath (nominal)	mm	42.9			
Nylon Jacket Thickness (nominal)	mm	0.4			
PVC Sheath Thickness (minimum) - outer	mm	1.0			
Overall Diameter of cable (nominal)	mm	44.7			
Cable Length on Drum (nominal)	m	500			
Conductor Form	Compacted, copper, Round, water blocked				
A.C. Resistance 50 Hz - 90 deg C	Ohm/km	0.0786			
* Inductive reactance	Ohm/km	0.114			
Screen fault current carrying capacity for 1 sec	kA	13.4			
* Current Carrying Capacity Direct In Ground	A	515			
* Current Carrying Capacity In Air	A	625			
* Current Carrying Capacity Under Ground Ducts	A	430			

0	ISSUED FOR CONSTRUCTION	C.C.	AUG'11	A.T.	S.C.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					



DES	-	POWER STANDARD DRAWING			
DRN	JAL	<b>CABLES COPPER - SINGLE CORE 6.35/11KV - XLPE - WATER BLOCKED HDPE SHEATHED NYLON JACKETED</b>			
CKD	SCM				
APPD	PJD				
SCALE	no scale				
ISSUED	JUL '95	A3	DRAWING NUMBER	S2-1-1-37	
ALL DIM. IN	mm			AMDT	
DRAFTING STANDARD TO A.S.1100			CAD PRODUCT - DO NOT AMEND MANUALLY		