



TAG No.	DESCRIPTION
1	Conductor - Aluminium - water blocked
2	Extruded Semi-conductive screen bonded to insulation - non-free strippable
3	Cross linked polyethylene insulation
4	Extruded free stripping semi-conductive material
5	water blocking tape
6	Concentric neutral screen copper
7	hdpe sheath
8	termite BARRIER - EXTRUDED NYLON 11 OR 12. COLOUR - BLACK
9	Sacrificial PVC sheath - colour black

- NOTES**
- EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL CONFORM AND BE IN ACCORDANCE 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 FLAT TOUCHING ARRANGEMENT.

ITEM NUMBER	units	1	2	3	4
STOCK CODE	-	9381	9407	9423	9431
Conductor Area (nominal)	sq. mm	35	95	240	400
Conductor Diameter (nominal)	mm	7.0	11.5	18.6	23.6
Insulation Thickness (nominal)	mm	3.4	3.4	3.4	3.4
Diameter over Insulation (nominal)	mm	15.4	19.9	27.0	32.0
Semicon Thickness (nominal)-conductor screen	mm	0.8	0.8	0.8	0.8
Semicon Thickness (nominal)-insulation screen	mm	0.8	0.8	1.0	1.0
Neutral Screen Area (minimum)	sq. mm	23	65	90	90
Number and Diameter of screen wires (minimum)	N <sup>o</sup> /mm	41/0.85	18/2.14	36/1.78	36/1.78
hdpe Sheath Thickness (nominal) - inner	mm	1.8	1.8	2.0	2.2
Diameter over hdpe Sheath (nominal)	mm	24.3	30.9	38.6	43.9
NYLON Thickness (nominal)	mm	0.4	0.4	0.4	0.4
PVC Sheath Thickness (minimum) - outer	mm	0.6	1.0	1.2	1.5
Overall Diameter of cable (nominal)	mm	26.4	33.0	41.1	46.5
Cable Length on Drum (nominal)	m	1000	1000	500	500
Conductor Form	Compacted, Aluminium, Round, water blocked				
A.C. Resistance 50 Hz - 90 deg C	Ohm/km	1.110	0.411	0.161	0.102
* Inductive reactance	Ohm/km	0.161	0.14	0.126	0.119
Screen fault current carrying capacity for 1 sec	kA	3.3	9.2	13.2	13.2
Current Carrying Capacity * Direct In Ground	A	140	235	375	465
Current Carrying Capacity * In Air	A	140	260	450	600
Current Carrying Capacity Under Ground Ducts	A	135	225	345	420

12 NOTE ADDED: ITEMS SUPERSEDED. 11 CHANGES TO TABLES 10 REDRAWN AND REVISED		RGI APR '01 MB FRR JAL FEB '95 SCM ... gmck MAY '93 N.S. B.T.K			DES -	POWER STANDARD DRAWING		
NO		DESCRIPTION			DRN	CABLES ALUMINIUM - SINGLE CORE 6.35/11KV - XLPE - NYLON JACKETED		
AMENDMENTS		DATE	CKD	APPD	APPD B.T.KENT	A3	DRAWING NUMBER	S02-01-01-06
					SCALE no scale			
					ISSUED MAY '93			
					ALL DIM. IN mm	DRAFTING STANDARD TO A.S.1100		
					CAD PRODUCT - DO NOT AMEND MANUALLY			