CABLE	STOCK CODE	Rac Ω/km	X50 Ω/km	Power Factor	MVA.km
Aluminium 1 core XLPE 35 sqmm. Trefoil configuration	Nylon: 9381 Termitex: 407183	1.11	0.145	0.75	4.86
				0.8	4.64
				0.85	4.43
				0.9	4.26
				0.95	4.12
				1	4.08
Aluminium 1 core XLPE 35 sqmm. Flat touching configuration	Nylon: 9381 Termitex: 407183	1.11	0.161	0.75	4.81
				0.8	4.59
				0.85	4.4
				0.9	4.23
				0.95	4.1
				1	4.08
Aluminium 1 core XLPE 95 sqmm. Trefoil configuration	Nylon: 9407 Termitex: 407184	0.411	0.124	0.75	11.6
				0.8	11.23
				0.85	10.92
				0.9	10.69
				0.95	10.56
				1	11.02
Aluminium 1 core XLPE 95 sqmm. Flat touching configuration	Nylon: 9407 Termitex: 407184	0.411	0.14	0.75	11.29
				0.8	10.97
				0.85	10.71
				0.9	10.51
				0.95	10.44
				1	11.02
Aluminium 1 core XLPE 240 sqmm. Trefoil configuration	Nylon: 9423 Termitex: 401315	0.161	0.11	0.75	23.42
				0.8	23.27
				0.85	23.27
				0.9	23.5
				0.95	24.19
				1	28.07
Aluminium 1 core XLPE 240 sqmm. Flat touching configuration	Nylon: 9423 Termitex: 401315	0.161	0.126	0.75	22.21
				0.8	22.18
				0.85	22.3
				0.9	22.68
				0.95	23.55
				1	28.04

CABLE	STOCK CODE	Rac Ω/km	X50 Ω/km	Power Factor	MVA.km
Aluminium 1 core XLPE 400 sqmm. Trefoil configuration	Nylon: 9431 Termitex: 407185	0.102	0.103	0.75	31.34
				0.8	31.61
				0.85	32.15
				0.9	33.13
				0.95	35.06
				1	44.15
Aluminium 1 core XLPE 400 sqmm. Flat touching configuration	Nylon: 9431 Termitex: 407185	0.102	0.119	0.75	29.2
				0.8	29.62
				0.85	30.32
				0.9	31.51
				0.95	33.73
				1	44.05
Aluminium 1 core XLPE 500 sqmm. Trefoil configuration	Termitex: 407187	0.08	0.1	0.75	35.93
				0.8	36.54
				0.85	37.53
				0.9	39.16
				0.95	42.16
				1	56.09
Aluminium 1 core XLPE 500 sqmm. Flat touching configuration	Termitex: 407187	0.08	0.112	0.75	33.8
				0.8	34.53
				0.85	35.65
				0.9	37.45
				0.95	40.7
				1	55.95
Copper 1 core XLPE 300 sqmm. Trefoil configuration	414409	0.079	0.114	0.75	33.73
				0.8	34.51
				0.85	35.69
				0.9	37.57
				0.95	40.96
				1	56.89

CABLE	STOCK CODE	Rac Ω/km	X50 Ω/km	Power Factor	MVA.km
Aluminium 3 core XLPE 400 sqmm.	Termitex: 407186	0.102	0.0906	0.75	33.23
				0.8	33.34
				0.85	33.71
				0.9	34.51
				0.95	36.16
				1	44.21
Aluminium 3 core XLPE 500 sqmm.	Termitex: 407188	0.081	0.0879	0.75	38.17
				0.8	38.61
				0.85	39.4
				0.9	40.78
				0.95	43.41
				1	55.67
Copper 3 core PAPER 50 sqmm.	9282	0.456	0.086	0.75	11.33
				0.8	10.87
				0.85	10.46
				0.9	10.11
				0.95	9.85
				1	9.94
Copper 3 core PAPER 185 sqmm.	9266	0.118	0.073	0.75	33.13
				0.8	32.8
				0.85	32.67
				0.9	32.84
				0.95	33.59
				1	38.32
Aluminium 3 core PAPER 300 sqmm.	9480	0.122	0.073	0.75	32.42
				0.8	32.06
				0.85	31.89
				0.9	32.01
				0.95	32.67
				1	37.07
Aluminium 3 core PAPER 400 sqmm.	9506	0.095	0.069	0.75	38.78
				0.8	38.61
				0.85	38.71
				0.9	39.21
				0.95	40.52
				1	47.55

NOTES:

1. DATA DERIVED FROM ASSUMING 40°C AMBIENT TEMPERATURE AND 25°C SOIL TEMPERATURE.
2. DIRECT BURIAL DEPTH OF 1M.
3. ONE CIRCUIT ARRANGEMENT.
4. SOIL THERMAL RESISTIVITY OF 1.2°CM/W.
5. VOLTAGE DROP OF 4%
6. DEFINITIONS: **Rac = RESISTANCE AT 50Hz AND CONDUCTOR TEPERATURE OF 90°C**
X50 = EQUIVALENT STAR REACTANCE AT 50Hz

NO	DESCRIPTION	DRN	DATE	CKD	APPD
3	300SQMM COPPER XLPE CABLE ADDED	A.T.	SPT'11	B.C.	S.C.
2	NEW CHART	J.C.	AUG'08	A.T	S.C.
1	AMENDMENTS TO TABLE HEADINGS AND NOTES.NOTES 1 & 4 ALTERED. NOTE 6 ADDED.	J.A.L.	MAY'95	S.C.M	P.J.D.

AMENDMENTS

PowerWater
NORTHERN TERRITORY

DES	T.TANG
DRN	PMC
CKD	A.GREENWOOD
APPD	C.H.YAU
SCALE	N.T.S.
ISSUED	MAR'94
ALL DIM. IN mm	
DRAFTING STANDARD TO A.S.1100	

POWER STANDARD DRAWING

DESIGN DATA UNDERGROUND CABLES POWER TRANSFER CAPACITY - 11000 VOLTS

A3

DRAWING NUMBER S02-4-2-07

3 AMDT

CAD PRODUCT - DO NOT AMEND MANUALLY