

SYSTEM VOLTAGE: 11kV

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 1 Core XLPE 35 sqmm	Nylon: 9381 Termitex: 407183	0.232	0	300	51
				500	86
				750	129
				1000	172

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 3 Core Screened PAPER 300 sqmm	9480	1.05	0	300	11
				500	19
				750	28
				1000	38

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 1 Core XLPE 95 sqmm	Nylon: 9407 Termitex: 407184	0.324	0	300	37
				500	61
				750	92
				1000	123

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 3 Core Screened PAPER 400 sqmm	9506	1.17	0	300	10
				500	17
				750	25
				1000	34

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 1 Core XLPE 240 sqmm	Nylon: 9423 Termitex: 401315	0.463	0	300	25
				500	43
				750	64
				1000	86

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 3 Core Screened XLPE 400 sqmm	Termitex: 407186	0.584	0	300	20
				500	34
				750	51
				1000	68

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 1 Core XLPE 400 sqmm	Nylon: 9431 Termitex: 407185	0.584	0	300	20
				500	34
				750	51
				1000	68

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 3 Core Screened XLPE 500 sqmm	Termitex: 407188	0.648	0	300	18
				500	30
				750	46
				1000	61

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Aluminium 1 Core XLPE 500 sqmm	Termitex: 407187	0.648	0	300	18
				500	30
				750	46
				1000	61

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Copper 3 Core Belted PAPER 50 sqmm	9282	0.185	0.062	300	53
				500	89
				750	133
				1000	178

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Copper 1 Core XLPE 300 sqmm	414409	0.545	0	300	22
				500	36
				750	55
				1000	73

CABLE	STOCK CODE	CORE TO SCREEN CAPACITANCE $\mu\text{F}/\text{km}$	CORE TO CORE CAPACITANCE $\mu\text{F}/\text{km}$	TRANSFORMER RATED KVA	FERRORESONANT CRITICAL LENGTH meters
Copper 3 Core Belted PAPER 185 sqmm	9266	0.31	0.103	300	31
				500	53
				750	79
				1000	106

NOTES:

- 1: DATA DERIVED ASSUMING MAGNETIZING CURRENT OF 0.8% OF RATED FULL LOAD CURRENT.
- 2: CRITICAL CABLE LENGTHS ROUNDED DOWN TO THE NEAREST METER.
- 3: INSTALLATIONS WITH CABLE LENGTHS GREATER THAN THE ABOVE CRITICAL LENGTH ARE LIKELY TO BE PRONE TO FERRORESONANCE DURING SINGLE PHASE SWITCHING OF TRANSFORMER.
- 4: WHERE CABLE LENGTHS CAN NOT BE LIMITED TO BELOW THE ABOVE CRITICAL LENGTH THEN A 3 PHASE SWITCH MUST BE INSTALLED.

NO	DESCRIPTION	DRN	DATE	CKD	APPD
2	300SQMM COPPER XLPE CABLE ADDED	A.T.	SEP'11	B.C.	S.C.
1	NEW CHART	J.C.	AUG'08	A.T.	S.C.
AMENDMENTS					



DES	T. TANG	POWER STANDARD DRAWING		
DRN	PMC	<b>DESIGN DATA</b> <b>UNDERGROUND CABLES</b> <b>FERRORESONANT CRITICAL LENGTH</b> <b>11000 VOLTS</b>		
CKD	A. GREENWOOD			
APPD	J. KING			
SCALE	N. T. S.			
ISSUED	OCT'94	A3	DRAWING NUMBER	S02-4-2-09
ALL DIM.	IN mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		AMDT