



CONSTRUCTION	
ITEM	DESCRIPTION
1	PLAIN ANNEALED COPPER CONDUCTOR TO AS 1125
2	EARTH CONDUCTOR (GREEN/YELLOW)
3	V-90 PVC INSULATION (RED, BLACK)
4	3V-90 PVC SHEATH (WHITE)

**NOTES:**

- CABLE TO AS/NZS 5000.2.
- SHEATH WHITE OR GREY.
- INSULATION - CORES - RED AND BLACK  
- EARTH - GREEN/YELLOW

CONDUCTOR				
ITEM	UNITS	1	2	3
STOCK CODE		2717	2725	2733
Conductor Nominal Area	sqmm	1.5	2.5	4.0
Conductor Nominal Diameter	mm	1.4	1.8	2.25
Conductor Stranding	No.Wires/sqmm	7/0.50	7/0.67	7/0.85
Overall Nominal Diameter	mm	4.6 x 10.1	5.5 x 12.4	6.4 x 14.7
Insulation Thickness	mm	0.6	0.7	0.8
Sheath Thickness	mm	1.0	1.0	1.0
Mass	kg/100m	7.4	14.1	21.0
Installed Bending Radius	mm	20	20	25
Drum Length	m	100	100	100

ELECTRICAL CHARACTERISTICS				
Rated Voltage	U <sub>0</sub> /U (kV)	450/750	450/750	450/750
Rated Current Free Air	A	15	23	31
Rated Current Direct Buried	A	24	34	44
Rated Current Underground Duct	A	18	26	34
AC Resistance 50Hz 90xC	Ohms/km	17.3	9.45	5.88
DC Resistance 20xC	Ohms/km	13.6	7.41	4.61
Equivalent Star Reactance 50Hz	Ohms/km	0.172	0.159	0.152
3-Phase Voltage Drop 90xC	V/A.m	30.00	16.40	10.40

DES		POWER STANDARD DRAWING	
DRN	R.HAIGH	CABLES	
CKD	A.SYME	COPPER - TWIN/ECC	
APPD	...	0.6/1kV	
SCALE	NTS	PVC/PVC	
ISSUED	6/11/85	A3	DRAWING NUMBER
ALL DIM. IN mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	



NO	DESCRIPTION	DRN	DATE	CKD	APPD
10	REDRAWN IN CAD CABLE NOTES & CABLE DETAIL UPDATED.				
9	OR GREY ADDED TO SHEATH COLOUR				
8	TITLE & DRG NUMBER CHANGED NOTE CHANGED NOTE 2 ADDED				
7	ITEM & STOCK CODE ADDED ITEM 3 ADDED				
6	REDRAWN & REDESIGNED				
	AMENDMENTS				

