

FIGURE 1: IDENTIFICATION OF CORES


ITEM	UNITS	1	2
ITEM NUMBER	-	197665	415591
NUMBER OF CORES	-	4	4
CONDUCTOR AREA	SQ.mm	95	150
CONDUCTOR FORM	-	STRANDED (CLASS 2) AA1350 COMPACTED CIRCULAR	
NUMBER OF STRANDS	-	19 ±1	19 ±1
DIAMETER OF CONDUCTOR - MIN.	mm	11.3	14.1
DIAMETER OF CONDUCTOR - MAX.	mm	11.9	14.9
INSULATION GRADE	-	EXTRUDED X-90 UV RESISTANT	
INSULATION COLOUR	-	BLACK	
NOMINAL INSULATION THICKNESS (EXCL. RIBS)	mm	1.7	1.7
VOLTAGE RATING	kV	0.6/1	0.6/1
NOMINAL MAX. DIAMETER OF CIRCUMSCRIBING CIRCLE OVER LAID-UP CORES	mm	38.4	45.6
MASS	kg/km	1264	1880
MODULUS OF ELASTICITY OF CONDUCTOR	GPa	56	56
MINIMUM BENDING RADIUS - SINGLE CORE	mm	70	80
MINIMUM BENDING RADIUS - BUNDLE	mm	345	410
MIN. BREAKING LOAD (MBL) OF CONDUCTOR	kN	53.2	84.0
MAX. WORKING TENSION (28% MBL)	kN	14.9	23.5
MAX. EVERYDAY TENSION (18% MBL)	kN	9.6	15.1
NOMINAL DRUM LENGTH	m	500	500
MAX. CONTINUOUS CURRENT PER PHASE	A	215	280
MAX. DC RESISTANCE, 20°C	Ohm/km	0.320	0.206
MAX. AC RESISTANCE, 80°C @ 50Hz	Ohm/km	0.398	0.257
POSITIVE SEQUENCE REACTANCE OF CABLE @ 50Hz	Ohm/km	0.0868	0.0844

NOTES:

1. CABLE MUST COMPLY WITH AS 3560.1, AS 3808 & STSP 01-003.
2. MINIMUM CARBON BLACK TO BE 2% WITH DISPERSION <5 AS PER AS1660.2.4.
3. ALL UNATTENDED ABC CONDUCTOR ENDS SHALL BE CAPPED, REFER TO S04-01-02-20.

10	EDITED NOTES 1 & 3. REMOVED CABLE SEAL IMAGERY. REFORMATTED TABLE & ADDED DETAILS.	A.N.	FEB'22	B.V.	B.C.
9	TITLEBLOCK & DRAWING NUMBER FORMATTED	K.T.	NOV'19	C.C.	C.C.
8	CABLE CAP DETAIL ADDED	P.H.	DEC'17	I.B.	B.C.
7	4x150SQMM ABC/NOTE 2 ADDED, X-FP-90 CANGED TO UV STABILIZED X-90	J.C.	MAR'12	A.T.	S.C.
6	NOTE 2 CHANGED	J.C.	MAR'08	A.T.	S.C.
5	AS UPDATED TO 2000	K.I.	SEP'05	C.C.	C.C.
4	NOTE 2 ADDED. TITLE CHANGED.	J.A.L.	JUL'95	S.C.M.	P.J.D.
3	INSULATION CHANGED TO COMPLY WITH LATEST AS 3560.	GMCK	FEB'92	-	N.S.
2	INSULATION CHANGED TO TYPE 2. RESISTANCE AMENDED.	B.G.	MAR'90	-	N.S.
1	TITLE AMENDED - 95 mmsq TO 95 sq.mm	PMC	FEB'90	-	A.T.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					

PowerWater
NORTHERN TERRITORY

DES		POWER STANDARD DRAWING		
DRN	H.T.	CONDUCTOR LV - ABC ALUMINIUM 4 X 95 AND 4 X 150 sq.mm XLPE GRADE X-90		
CKD	G.SCHUBERT			
APPD	B.T.KENT			
SCALE	N.T.S.			
ISSUED	SEP' 89	A3	DRAWING NUMBER	S04-01-01-01
ALL DIM. IN	mm			
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		 AMD