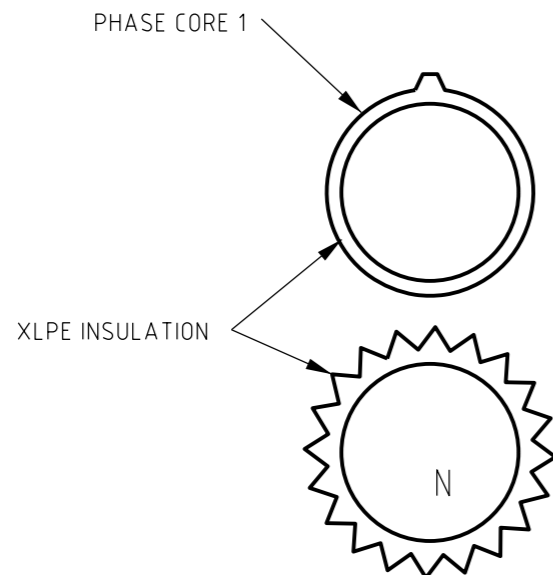


ITEM 2: 4 CORE CONDUCTOR



ITEMS 1, 3 & 4: 2 CORE CONDUCTOR

ITEM	UNITS	1	2	3	4
ITEM NUMBER	-	286088	286096	502896	REF. NOTE 7
NUMBER OF CORES	-	2	4	2	2
CONDUCTOR AREA	SQ.mm	16	16	6	10
CONDUCTOR FORM	-	STRANDED (CLASS 2) HARD DRAWN Cu NON-COMPACTED CIRCULAR			
NUMBER OF STRANDS	-	7/1.70	7/1.70	7/1.04	7/1.35
DIAMETER OF CONDUCTOR - MIN.	mm	5.0	5.0	3.0	4.0
DIAMETER OF CONDUCTOR - MAX.	mm	5.2	5.2	3.2	4.2
INSULATION GRADE	-	EXTRUDED X-90 UV RESISTANT			
INSULATION COLOUR	-	BLACK			
NOMINAL INSULATION THICKNESS (EXCL. RIBS)	mm	1.3	1.3	1.3	1.3
VOLTAGE RATING	kV	0.6/1	0.6/1	0.6/1	0.6/1
NOMINAL MAX. DIAMETER OF CIRCUMSCRIBING CIRCLE OVER LAID-UP CORES	mm	16.5	20	12.5	-
MASS	kg/km	326	653	143	240
MODULUS OF ELASTICITY OF CONDUCTOR	GPa	112	112	112	112
MINIMUM BENDING RADIUS - SINGLE CORE	mm	35	35	25	30
MINIMUM BENDING RADIUS - BUNDLE	mm	100	120	70	95
MIN. BREAKING LOAD (MBL) OF CONDUCTOR - BUNDLE	kN	12.2	24.4	4.78	-
MAX. WORKING TENSION (28% MBL) - BUNDLE	kN	3.42	6.83	1.34	-
MAX. EVERYDAY TENSION (18% MBL) - BUNDLE	kN	2.2	4.39	0.86	-
NOMINAL DRUM LENGTH	m	250	250	500	250
MAX. CONTINUOUS CURRENT PER PHASE	A	100	100	56	77
MAX. DC RESISTANCE, 20°C	Ohm/km	1.19	1.19	3.18	1.88
MAX. AC RESISTANCE, 80°C @ 50Hz	Ohm/km	1.43	1.43	3.83	2.26
POSITIVE SEQUENCE REACTANCE OF CABLE @ 50Hz	Ohm/km	0.093	0.1	0.106	-
MAX. SERVICE FUSE SIZE	A	80	80	REF. NOTE 8	63

NOTES:

- CONDUCTOR MUST GENERALLY COMPLY WITH AS 1125.
- DRUM SIZE - 750 DIA. x 480 WIDE (MAX).
- XLPE INSULATION MUST COMPLY WITH AS 3808:
 - GRADE :X-90
 - COLOUR :BLACK
 - VOLTAGE :0.6/1kV
- CURRENT RATING TO AS 3008 WITH 1m/sec WIND.
- ITEM 3 IS FOR OVERHEAD INDIVIDUAL STREET LIGHT CONNECTION
- ALL UNATTENDED ABC CONDUCTOR ENDS SHALL BE CAPPED.
- ITEM 4 NOT FOR NEW CONSTRUCTION
- WHEN CONDUCTOR IS USED FOR SUPPLYING POWER TO LUMINAIRE SERVICE FUSE SHALL BE SIZE ACCORDING TO LUMINAIRE PROTECTION REQUIREMENTS THOUGH NOT EXCEEDING 45A
- REFER TO STSP 01-003 FOR LV-ABC REQUIREMENTS. REFER TO S04-01-02-20 AND STSP 01-022 FOR CABLE END-CAP REQUIREMENTS.

11	REFORMATTED TABLE. ADDED TECHNICAL DETAILS. REMOVE CABLE CAP. EDITED NOTE 6	A.N.	FEB'22	B.V.	B.C.
10	REFORMATTED TEXT, ADDED NOTE 9	A.N.	JUL'21	C.C.C.	B.V.
9	UPDATE MINIMUM BREAKING LOAD	H.E.	AUG'20	B.V.	B.C.
8	ITEM 1 CURRENT CARRYING CAPACITY UPDATED.	M.S.C.	MAR'20	C.C.	B.V.
7	ITEM 3 CABLE PER LENGTH UPDATED. NOTE 1, 2 AND 3 UPDATED	C.C.	DEC'18	B.V.	B.C.
6	NOTE 8 UPDATED, TITLE BLOCK & DRAWING NUMBER FORMATTED	CWM	SEPT'18	I.B.	B.V.
5	INCLUDE ITEM 4 & FUSE SIZES	P.H.	DEC'17	I.B.	B.C.
5	CABLE CAP DETAIL ADDED				
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					

PowerWater
NORTHERN TERRITORY

DES	...	POWER STANDARD DRAWING		
DRN	J.A.L.	CONDUCTOR OVERHEAD SERVICE AND STREETLIGHT COPPER XLPE GRADE X-90		
CKD	S.C.M.			
APPD	P.J.D.			
SCALE	N.T.S.			
ISSUED	JUL'95	A3	DRAWING NUMBER	S01-01-07-03
ALL DIM. IN mm				
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY		

11
AMDT