



ITEM	UNITS	1	2	3	4	5
ITEM NUMBER	-	286005	286013	286021	286039	500984
CONDUCTOR AREA	SQ.mm	35	95	240	400	630
CONDUCTOR DIAMETER	mm	7.0	11.5	18.6	23.6	29.9
CONDUCTOR SCREEN SEMI-CON MIN.	mm	0.3	0.3	0.3	0.3	0.3
XLPE INSULATION THICKNESS	mm	3.4	3.4	3.4	3.4	3.4
DIAMETER OVER XLPE INSULATION	mm	16.5	20	27.3	32	38
INSULATION SCREEN SEMI-CON MIN.	mm	0.6	0.6	0.6	0.6	0.6
WATER BLOCKING TAPE THICKNESS MIN.	mm	0.3	0.3	0.3	0.3	0.3
EARTH SCREEN AREA	SQ.mm	23	65	90	90	90
EARTH SCREEN FAULT RATING	kA.1s	3.3	9.2	13.1	13.1	13.1
PVC SHEATH THICKNESS	mm	1	1	1	1.5	1.5
DIAMETER OVER PVC	mm	23.5	28.5	35.6	41.7	48.4
NYLON SHEATH THICKNESS MIN.	mm	0.5	0.5	0.5	0.5	0.5
HDPE SHEATH THICKNESS	mm	2	2	2	2.5	2.5
OVERALL CABLE DIAMETER	mm	31	35	42.5	50	56.5
CABLE LENGTH ON DRUM	m	1000	1000	500	500	750
BENDING RADIUS DURING INSTALL	mm	850	1000	1250	1500	1600
BENDING RADIUS INSTALLED	mm	550	675	850	925	1100
MASS OF CABLE	kg/km	1075	1700	2580	3410	4290
CONDUCTOR FORM	-	COMPACTED, AA1350, H68 TEMPER, ROUND, WATER BLOCKED				
AC RESISTANCE @ 50Hz, 90°C	OHM/km	1.110	0.410	0.161	0.102	0.0636
INDUCTIVE REACTANCE	OHM/km	0.144	0.123	0.107	0.101	0.0950
POSITIVE SEQUENCE CAPACITANCE	uF/km	0.237	0.311	0.425	0.516	0.664
ZERO SEQUENCE RESISTANCE	OHM/km	1.66739	0.60983	0.34274	0.30330	0.28320
ZERO SEQUENCE REACTANCE	OHM/km	0.08184	0.07931	0.07473	0.07649	0.07323
CURRENT RATING - DIRECT BURIED	A	134	231	380	485	620
CURRENT RATING - IN DUCTS	A	108	189	318	417	533
CURRENT RATING - IN AIR	A	135	240	415	550	727
3PH VOLTAGE DROP @ 50Hz, 90°C	mV/A.m	1.94	0.74	0.33	0.24	0.24

NOTES:

- EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL COMPLY WITH AS1429.
- THE CABLE SHALL BE PERMANENTLY MARKED WITH MANUFACTURERS IDENTIFICATION, YEAR OF MANUFACTURE, VOLTAGE RATING, CONDUCTOR MATERIAL AND CROSS SECTIONAL AREA, INSULATION MATERIAL AND TERMITE PROTECTION AT INTERVALS ALONG ITS OUTER SHEATH.
- THE CABLE SHALL ALSO HAVE CONSECUTIVE NUMBERS PRINTED ALONG ITS OUTER SHEATH NOMINALLY SPACED AT ONE METRE INTERVALS.
- THE CABLE SHALL BE WOUND ON ITS DRUM TO ENSURE THE LEGIBILITY OF NOTES 2 AND 3.
- THE CABLE SHALL BE "DRY CURED".
- ALL RATINGS, EXCEPT FOR 630sq.mm CABLES, ARE BASED ON CABLES IN TOUCHING TREFOIL CONFIGURATION WITH 40°C AMBIENT AIR TEMPERATURE, 25°C SOIL TEMPERATURE, 0.8m BURIAL DEPTH AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W
- 630sq.mm CABLE RATINGS BASED ON 150mm DIAMETER HD CONDUITS IN TOUCHING TREFOIL CONFIGURATION WITH ONE CABLE PER CONDUIT, 40°C AMBIENT AIR TEMPERATURE, 25°C SOIL TEMPERATURE, 0.8m BURIAL DEPTH AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W
- ALL CABLES SHALL BE FITTED WITH MASTIC LINED HEATSHRINK END CAPS AT ALL TIMES EXCEPT WHEN THE CABLE IS IN THE JOINTING OR TERMINATION PROCESS.
- REFER TO STSP 02-003 FOR FURTHER DETAILS.
- DIMENSIONS GIVEN ARE NOMINAL MEASUREMENTS.

9	SACRIFICIAL UV STABILISED HDPE SHEATH - COLOUR BLACK
8	ANTI-TERMITE JACKET - EXTRUDED NYLON 11 OR 12 CONTRASTING COLOUR (BLUE)
7	V-90 PVC SHEATH - COLOUR ORANGE
6	CONCENTRIC HELICAL EARTH SCREEN - COPPER C11000 '0'
5	SEMI-CONDUCTIVE WATER BLOCKING TAPE
4	EXTRUDED FREE STRIPPING SEMI-CONDUCTIVE MATERIAL
3	CROSS-LINKED POLYETHYLENE (XLPE) INSULATION - DRY CURED
2	EXTRUDED SEMI-CONDUCTIVE SCREEN BONDED TO INSULATION - NON-FREE STRIPPABLE
1	CONDUCTOR - ALUMINIUM ALLOY 1350 TEMPER H68 - WATER BLOCKED
TAG NUMBER	DESCRIPTION

NO	DESCRIPTION	DRN	DATE	CKD	APPD
6	REFORMATTED TABLES. UPDATE BENDING RADIUS.	A.N.	SEP'21	A.N.	B.V.
5	CABLE DIAMETER BENDING RADIUS AND WEIGHT ADDED	C.C.	JUL'20	B.C.	H.E.
4	UPDATE TITLE BLOCK AND CONSTRUCTION TO STSP 02-003	CWM	APR'20	C.C.	B.C.
3	TABLES AND NOTES UPDATED. ITEM 5, NOTE 8 ADDED	A.T.	FEB'13	B.C.	B.C.
2	WATER BLOCKING TAPE MOVED TO OUTSIDE OF EARTH SCREEN	J.C.	JUNE'10	A.T.	S.C.



DES	-	POWER STANDARD DRAWING		
DRN	JAL	CABLES ALUMINIUM - SINGLE CORE 6.35/11KV - XLPE - WATER BLOCKED HDPE SHEATHED NYLON JACKETED		
CKD	SCM			
APPD	PJD			
SCALE	no scale			
ISSUED	JUL'95	A3	DRAWING NUMBER	S02-01-01-25
ALL DIM. IN mm			CAD PRODUCT - DO NOT AMEND MANUALLY	
DRAFTING STANDARD TO A.S.1100			AMD T	