

NOTES:

- 1. EXCEPT WHERE OTHERWISE SPECIFIED THE CABLE SHALL COMPLY WITH AS1429.
- 2. 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.
- 3. THE CABLE SHALL ALSO HAVE CONSECUTIVE NUMBERS PRINTED ALONG ITS OUTER SHEATH NOMINALLY SPACED AT ONE METRE INTERVALS.
- 4. THE CABLE SHALL BE WOUND ON ITS DRUM TO ENSURE THE LEGIBILITY OF NOTES 2 AND 3.
- 5. THE CABLE SHALL BE "DRY CURED".
- 6. 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
- 7. 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
- 8. 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.
- 9. REFER TO STSP 02-003 FOR FURTHER DETAILS.
- 10. DIMENSIONS GIVEN ARE NOMINAL MEASUREMENTS.

ITEM	UNITS	1	2	3	
ITEM NUMBER	-	4 116 18	502180	500972	
CONDUCTOR AREA	SQ.mm	240	400	630	
CONDUCTOR DIAMETER	mm	18.0	23.5	29.9	
CONDUCTOR SCREEN SEMI-CON MIN.	mm	0.3	0.3	0.3	
XLPE INSULATION THICKNESS	mm	5.5	5.5	5.5	
DIAMETER OVER XLPE INSULATION	mm	29.6	35.1	54.5	
INSULATION SCREEN SEMI-CON MIN.	mm	0.6	0.6	0.6	
WATER BLOCKING TAPE THICKNESS MIN.	mm	0.3	0.3	0.3	
EARTH SCREEN AREA	SQ.mm	90	90	90	
EARTH SCREEN FAULT RATING	kA.1s	13.1	13.1	13.1	
PVC SHEATH THICKNESS	mm	1	1.5	1.5	
DIAMETER OVER PVC	mm	39.9	46	52.6	
NYLON SHEATH THICKNESS MIN.	mm	0.5	0.5	0.5	
HDPE SHEATH THICKNESS	mm	2	2.5	2.5	
OVERALL CABLE DIAMETER	mm	46.6	54.0	57.7	
CABLE LENGTH ON DRUM	m	500	500	750	
BENDING RADIUS DURING INSTALL	mm	1250	1430	1610	
BENDING RADIUS INSTALLED	mm	750	860	960	
MASS OF CABLE	kg/km	2890	3730	4680	
CONDUCTOR FORM	-	COMPACTED, AA1350, H68 TEMPER, ROUND, WATER BLOCKED			
AC RESISTANCE @ 50Hz, 90°C	OHM/km	0.161	0.102	0.0632	
INDUCTIVE REACTANCE	OHM/km	0.116	0.108	0.101	
POSITIVE SEQUENCE CAPACITANCE	uF/km	0.289	0.347	0.422	
ZERO SEQUENCE RESISTANCE	OHM/km	0.34887	0.31013	0.29079	
ZERO SEQUENCE REACTANCE	OHM/km	0.07676	0.07691	0.07493	
CURRENT RATING - DIRECT BURIED	Α	352	455	593	
CURRENT RATING - IN DUCTS	А	313	403	523	
CURRENT RATING - IN AIR	Α	452	606	822	
3PH VOLTAGE DROP @ 50Hz, 90°C	mV/A.m	0.34	0.272	-	

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 'O'
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

Ö	ISSUED FOR CONSTRUCTION	J.C.	SEP'11	B.C.	S.C.
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1	TABLE AND NOTES UPDATED, ITEM 3 ADDED	Ā.T.	FEB'13	B.C.	B.C.
2	ITEM 2 ADDED	C.M.	NOV'13	B.C.	B.C.
3	UPDATE TITLE BLOCK AND CONSTRUCTION TO STSP 02-003	C.C.	APR'20	C.C.	B.C.
4	UPDATED TABLE. REFORMATTED TABLES AND NOTES. RENUMBERED ITEMS.	A.N.	OCT'21	A.N.	B.V.



ALL DIM.	IN mm	А3	NUMBER S02-01-01-38 /4	
ISSUED	JUL '95		DRAWING	
SCALE	N.T.S.		HDPE SHEATHED NYLON JACKETED	
APPD	PJD	12.7/22KV - XLPE - WATER BLOCKED		
CKD	SCM		ALUMINIUM - SINGLE CORE	
DRN	JAL		CABLES	
DES	-		POWER STANDARD DRAWING	