

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, AND INSULATION MATERIAL 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 LEGIBILITY OF THE INFORMATION IN NOTES 2 AND 3.
- 5. THE CABLE SHALL BE "DRY CURED".
- 6. ALL RATINGS EXCEPT FOR 630sq.mm CABLES, ARE BASED ON TOUCHING TREFOIL CONFIGURATION WITH 40°C AMBIENT AIR TEMPERATURE, BURIAL DEPTH OF 0.8M, SOIL TEMPERATURE OF 25°C AND SOIL THERMAL RESISTIVITY OF 1.2°C.M/W.
- 7. ALL CABLE ENDS SHALL BE FITTED WITH MASTIC LINED HEATSHRINK CAPS AT ALL TIMES EXCEPT WHEN THE CABLE IS IN THE JOINTING OR TERMINATION PROCESS.
- 8. 630sq.mm (ABLE 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
- 9. REFER TO STSP 02-003 FOR FURTHER DETAILS.
- 10. DIMENSIONS GIVEN ARE NOMINAL UNLESS NOTED OTHERWISE.

CONDUCTOR DIAMETER CONDUCTOR SCREEN SEMI-CON MIN. XLPE INSULATION THICKNESS DIAMETER OVER XLPE INSULATION INSULATION SCREEN SEMI-CON MIN.	- Q.mm mm mm	286047 35 7.0 0.3 5.5	286054 120 12.8	286062 240 18.2	413426 630	
CONDUCTOR DIAMETER CONDUCTOR SCREEN SEMI-CON MIN. XLPE INSULATION THICKNESS DIAMETER OVER XLPE INSULATION INSULATION SCREEN SEMI-CON MIN.	mm mm	7.0	12.8		630	
CONDUCTOR SCREEN SEMI-CON MIN. XLPE INSULATION THICKNESS DIAMETER OVER XLPE INSULATION INSULATION SCREEN SEMI-CON MIN.	mm	0.3		18.2	1	
XLPE INSULATION THICKNESS DIAMETER OVER XLPE INSULATION INSULATION SCREEN SEMI-CON MIN.	mm		۸ ۵	10.2	29.6	
DIAMETER OVER XLPE INSULATION INSULATION SCREEN SEMI-CON MIN.		5.5	0.3	0.3	0.3	
INSULATION SCREEN SEMI-CON MIN.			5.5	5.5	5.5	
	mm	20	25.8	31.5	43.2	
WATER BLOCKING TARE THICKNESS MIN	mm	0.6	0.6	0.6	0.6	
WATER BLOCKING TAPE THICKNESS MIN.	mm	0.3	0.3	0.3	0.3	
EARTH SCREEN AREA SI	Q.mm	23	90	90	90	
EARTH SCREEN FAULT RATING k	κA.1s	3.3	13.1	13.1	13.1	
PVC SHEATH THICKNESS	mm	1.0	1.0	1.0	1.5	
DIAMETER OVER PVC	mm	26.9	34.8	39.9	52.6	
NYLON SHEATH THICKNESS MIN.	mm	0.5	0.5	0.5	0.5	
HDPE SHEATH THICKNESS	mm	2	2	2	2.5	
OVERALL CABLE DIAMETER	mm	34.1	42.0	47.1	60.4	
CABLE LENGTH ON DRUM	m	1000	1000	500	500	
BENDING RADIUS DURING INSTALL	mm	1110	1350	1530	1950	
BENDING RADIUS INSTALLED	mm	740	900	1020	1300	
MASS OF CABLE kg	g/km	1400	3090	4360	8470	
CONDUCTOR FORM	-	COMPAC	FED, Cu C1100 BLO0	11000 'O' ROUND, WATER BLOCKED		
AC RESISTANCE @ 50Hz, 90°C OH	HM/km	0.668	0.196	0.0978	0.0407	
INDUCTIVE REACTANCE OH	HM/km	0.159	0.127	0.115	0.101	
POSITIVE SEQUENCE CAPACITANCE ul	F/km	0.156	0.224	0.289	0.453	
ZERO SEQUENCE RESISTANCE OH	HM/km	0.75458	0.36862	0.29954	0.25320	
ZERO SEQUENCE REACTANCE OH	HM/km	0.08316	0.07932	0.07676	0.05888	
CURRENT RATING - DIRECT BURIED	А	158	335	475	841	
CURRENT RATING - IN DUCTS	А	142	305	415	728	
CURRENT RATING - IN AIR	А	183	378	581	999	
3PH VOLTAGE DROP @ 50Hz, 90°C m\	V/A.m	-	-	-	-	

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
Ω	CROSS-LINKED POLYETHYLENE (XLPE) INSULATION - DRY CURED
2	EXTRUDED SEMI-CONDUCTIVE SCREEN BONDED TO INSULATION - NON-FREE STRIPPABLE
1	CONDUCTOR - COPPER C11000 'O' - WATER BLOCKED
TAG NUMBER	DESCRIPTION

OTES AND TABLE UPDATED ATER BLOCKING TAPE MOVED TO OUT SIDE OF EARTH SCREEN AG NO 8 COLOUR AMMENDED DESCRIPTION AMENDME	A.T. J.C. RGI	FEB'13 MAY'10 APR'01 DATE	B.C. A.T. *	B.C. S.C. FRR
OTES AND TABLE UPDATED	A.T.	FEB'13 MAY'10	B.C.	B.C. S.C.
TENTE TITLE BESON THIS CONSTRUCTION TO STOL SE SOS	O III III			
PDATE TITLE BLOCK AND CONSTRUCTION TO STSP 02-003	CWM	APR'20	C.C.	B.C.
EFORMATTED TABLES, UPDATED INFORMATION, EDITED NOTE 2.	A.N.	OCT'21	A.N.	B.V.
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DRAFTING STANDARD TO A.S.1100		NUMBER	DUCT - DO NOT AMEND MANUALLY		
ISSUED	JUL'95	A3	DRAWING	S02-01-01-26	
SCALE	N.T.S.		HUPE SHEA	THED & NYLON JACKET	FD
APPD	PJD			XLPE WATER BLOCKE	
CKD	SCM]	COPPER - S		
DRN	JAL		CABLES		
DES	-		POWER	R STANDARD DRAWING	