



ITEM	UNITS	1	2	3	4
ITEM NUMBER	-	500960	414409	501797	501770
CONDUCTOR AREA	SQ.mm	240	300	400	800
CONDUCTOR DIAMETER	mm	18.2	20.2	23.2	34.5
CONDUCTOR SCREEN SEMI-CON MIN.	mm	0.3	0.3	0.3	0.3
XLPE INSULATION THICKNESS	mm	3.4	3.4	3.4	3.4
DIAMETER OVER XLPE INSULATION	mm	27.3	29.4	32.4	43.3
INSULATION SCREEN SEMI-CON 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	SQ.mm	90	90	90	90
EARTH SCREEN FAULT RATING	kA.1s	13.1	13.1	13.1	13.1
PVC SHEATH THICKNESS	mm	1	1	1.5	1.5
DIAMETER OVER PVC	mm	35.7	37.8	41.8	52.7
NYLON SHEATH THICKNESS MIN.	mm	0.5	0.5	0.5	0.5
HDPE SHEATH THICKNESS	mm	2	2	2.5	2.5
OVERALL CABLE DIAMETER	mm	42.9	45	50	61.3
CABLE LENGTH ON DRUM	m	500	500	1000	500
BENDING RADIUS DURING INSTALL	mm	1400	1450	1600	2000
BENDING RADIUS INSTALLED	mm	950	1000	1050	1350
MASS OF CABLE	kg/km	4090	4700	5870	9850
CONDUCTOR FORM	-	COMPACTED, Cu, C11000 '0', ROUND, WATER BLOCKED			
AC RESISTANCE @ 50Hz, 90°C	OHM/km	0.0978	0.0788	0.0628	0.0341
INDUCTIVE REACTANCE	OHM/km	0.115	0.112	0.107	0.096
POSITIVE SEQUENCE CAPACITANCE	uF/km	0.425	0.462	0.516	0.712
ZERO SEQUENCE RESISTANCE	OHM/km	0.2934	0.2813	0.2730	0.2674
ZERO SEQUENCE REACTANCE	OHM/km	0.0792	0.0779	0.0790	0.0747
CURRENT RATING - DIRECT BURIED	A	483	541	607	829
CURRENT RATING - IN DUCTS	A	417	466	523	741
CURRENT RATING - IN AIR	A	525	600	672	900
3PH VOLTAGE DROP @ 50Hz, 90°C	mV/A.m	-	-	-	-

**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 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 - BLACK OR 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 - COPPER C11000 TEMPER 0 - WATER BLOCKED
TAG NUMBER	DESCRIPTION

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