Drawing and Type Test Report Schedule for MV XLPE Cables

SAP: 175763 CABLE 22kV 3C 185SQ. CU FUX3SCQ

1	2	3	4	5
Drawings				**Drawing/ Instruction number**
1	Cable cross sectional area drawing			
2	Cable embossing drawing			
3	Cable drum and drum labelling			
4	Cable conductor marking			
5	Cable water blocking removal instructions			
6	List of raw material that was type tested to be used for the cable manufacturing			
7	Conductor and cable marking detail			
Type Test Reports and certificates as required in SANS 1339				**Report Number**
Component	**Test property**	**Test method**	**Requirement**	
Fillers and binders	Acid gas emission	SANS 60754-2	4.5.3	
Bedding	Acid gas emission	SANS 60754-2	4.5.3	
Outer sheath	Acid gas emission	SANS 60754-2	4.5.3	
Finished cable	Fire propagation	SANS 60332-3-24	4.5.1	
	Smoke emission	SANS 61034-2	4.5.2	
Type approval test	Bending test	SANS 6284-3	4.6.2.1	
	Partial discharge test	SANS 6291	4.6.2.3	
	Load cycling test	SANS 6284-3	4.6.2.2	
	Impulse voltage withstand	SANS 6284-3	4.6.2.4	
	Four hour high voltage withstand	SANS 6284-3	4.6.2.5	
Ageing test	50 Hz, 2 year test or	SANS 6284-5	4.7.2	
(One of the two tests 50Hz or 500Hz will be sufficient)	500 Hz, 3 000 h test	SANS 6284-5	4.7.3	

Water penetration test	Longitudinal water penetration test	SANS 1339	4.3.14	
Routine Test reports and certificates generic copies as required in SANS 1339				**Report Number**
Component	**Test property**	**Test method**	**Requirement**	
Metallic core screen	Assembly	SANS 1339: 2017 (Visual examination)	4.3.7.1	
Core(s)	Identification	SANS 1339: 2017 (Visual examination)	4.3.6	
	Laying up	SANS 1339: 2017 (Visual examination)	4.3.8.1	
Finished cable	Marking	SANS 1339: 2017 (Visual examination)	7.2.1	
	Conductor resistance	SANS 6282-1	4.4.1	
	Voltage withstand	SANS 6284-3	4.4.2	
	Partial discharge test	SANS 6291	4.4.3	
	DC voltage test on outer sheath	SANS 6286	4.4.4	
Sample Test reports and certificates generic copies as required in SANS 1339				**Report Number**
Component	**Test property**	**Test method**	**Requirement**	
Conductor	Construction	SANS 1411-1	4.3.1	
Conductor screen	Thickness	SANS 6284-2	4.3.2.3	
	Measurement of insulation interface protrusions and voids	SANS 6284-1	4.3.2.2	
XLPE insulation	Composition	SANS 1411-4	4.3.3.1	
	Thickness	SANS 6284-1	4.3.3.2	
	Measurement of voids and contaminants	SANS 6284-1	4.3.3.1	
Core screen	Adhesion	SANS 6284-2	4.3.4.2	
	Thickness	SANS 6284-2	4.3.4.3	
	Measurement of insulation interface protrusions and voids	SANS 6284-1	4.3.4.2	
Metallic core screen	Wire size (Where applicable)	By Measurement	4.3.7.3	
Core(s)	Identification	Visual examination	4.3.6	
Lead or lead alloy sheath (where applicable)	Composition	SANS 6281 -2	4.3.10.2	

	Malleability	SANS 6281 -2	4.3.10.2	
	Thickness	SANS 6281 -2	4.3.10.4	
Bedding	Physical properties	SANS 1411-2 or 1411- 5	4.3.11.1	
	Thickness	SANS 60811-1-1	4.3.11.2	
Armour	Properties	SANS 1411-6	4.3.12.1	
	Wire diameter	SANS 6283	4.3.12.2	
Outer sheath	Physical properties	SANS 1411-2, SANS1411-5 or SANS1411-7	4.3.13.1	
	Thickness	SANS 60811-1-1	4.3.13.2	
Finished cable	Resistivity of semiconducting scree	SANS 6284-2	4.3.2.4	

6	7	8	9
Revision number	**Unique product model/ type/ code offered**	**Product rating / size offered**	**Manufacturing location (Name, Address and Country)**
Test facility and date tested	**Unique product model/type type tested**	**Product rating offered**	**Manufacturing location of type tested unit (Name, Address and Country)**

Test facility and date tested	Unique product model/type type tested	Product rating offered	Manufacturing location of type tested unit (Name, Address and Country)

Test facility and date tested	Unique product model/type type tested	Product rating offered	Manufacturing location of type tested unit (Name, Address and Country)
