

## Single Core, Aluminium, XLPE insulated, Cu wire screen, MDPE. (Type B). Non-armoured Longitudinally water blocked cable.

SIZE CODE: XLcwsWB 1x(conductor size)MDPE 33kV

### Application

For use in power circuits of 19/33kV systems. Installed in cable trays and ducts.

### Construction

Single core, circular annealed Copper stranded conductor (water blocked), XLPE Insulated, copper wire screened, medium density Polyethylene sheathed.

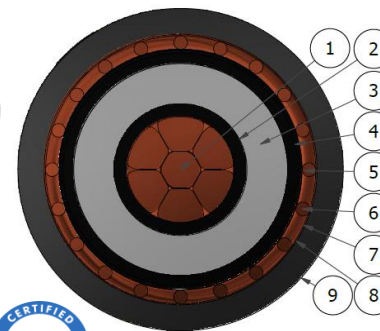
Specification: SANS 1339

Voltage Rating: 19/33kV

Physical properties and dimensions								Electrical Properties									
Conductor size	Conductor diameter	Insulation diameter	Insulation thickness	Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Current rating			Resistance $\Omega$ /km max		Reactance $\Omega$ /km	Impedance $\Omega$ /km	Capacitance $\mu$ F/km	Short circuit ratings	
								air	ground	ducts	dc @ 20°C	ac @ 90°C				Symmetrical	Earth fault Cu wire screen
													kA (1sec)				
50	8.2	27.8	8.0	36.7	1.34	751	735	190	160	125	0.387	0.494	0.161	0.519	0.141	4.0	3.4
70	9.9	29.5	8.0	38.4	1.74	972	769	235	195	155	0.268	0.342	0.152	0.374	0.157	5.8	4.2
95	11.8	31.5	8.0	40.5	2.07	1,072	810	285	230	180	0.193	0.247	0.141	0.284	0.173	8.0	4.5
120	13.1	32.7	8.0	41.8	2.36	1,258	836	325	260	205	0.153	0.196	0.136	0.238	0.186	10.2	4.7
150	14.8	34.4	8.0	43.7	2.70	1,361	874	370	290	230	0.124	0.159	0.131	0.206	0.201	12.5	4.9
185	16.3	35.9	8.0	45.3	3.11	1,484	905	420	325	260	0.099	0.127	0.126	0.179	0.214	15.7	5.1
240	18.9	38.5	8.0	49.0	3.99	1,648	979	485	370	290	0.075	0.099	0.131	0.164	0.201	20.6	9.1
300	21.2	40.8	8.0	51.5	0.36	658	1029	550	415	330	0.060	0.082	0.121	0.146	0.242	25.7	9.5

### Cable Identification:

FRPVC (red stripe), LHFRPVC (blue stripe), HFFR (white stripe), PE (no stripe).



Item	Description
1	Annealed Copper conductor water blocked
2	Semi-conductive conductor screen
3	TR XLPE Insulation
4	Semi-conductive core screen
5	Semi-conductive water blocking tape
6	Copper wire screen
7	Copper equalizing tape
8	Non conductive binding water blocking tape
9	Sheathing

Revision: R00 12/07/2017