

3 Core

Copper, XLPE Insulated, FRPVC / LHFRPVC (Type B) non-armoured

SIZE CODE:

XLUA 3 x(conductor size) FR / LH UA 33kV

Application

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

Specification: SANS 1339

Construction

Voltage Rating: 19/33kV

3 Core, Circular Copper stranded conductor, XLPE insulated, individually copper tape screened, flame retardant / low halogen flame retardant PVC sheathed.

Physical properties and dimensions						Electrical Properties												
size	neter	eter	er			Sr	Illing force conductors						φ	e O	ce		circuit ngs	þ
Conductor siz	Conductor diameter	Insulation diameter	Cable diamete	Cable mass	Gross mass (300m)	Bending radius	aximum pu combined	combined		ting	Resistance Ω/km max		Reactance	Impedance	Capacitance	Symmetrical	Max. Earth fault	Recommended Gland size
							≥ و		Amps		dc	ac	- "	- "			Σ	
mm² Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm min.	kN	air	ground	ducts	@ 20°C	@ 90°C	Ω/km	Ω/km	μF/km	kA (Isec)	CCG
50	8.3	27.8	69.8	5.1	1,877	837	588	209	195	167	0.268	0.494	0.144	0.514	0.142	6.4	1.0	7-75
70	10.0	29.5	73.6	6.0	2,264	884	823	257	237	200	0.268	0.343	0.135	0.369	0.157	9.3	1.0	7-75
95	11.8	31.4	77.8	7.1	2,568	934	1,117	314	279	237	0.193	0.251	0.128	0.282	0.174	12.9	1.0	7-75
120	13.1	32.7	81.1	8.2	3,004	973	1,411	356	316	270	0.153	0.203	0.121	0.237	0.186	16.2	1.0	8-80
150	14.7	34.4	84.9	9.2	3,318	1019	1,764	409	353	307	0.124	0.170	0.117	0.207	0.199	20.0	1.0	9-90
185	16.3	35.9	88.5	10.6	3,739	1062	2,176	466	400	344	0.0991	0.143	0.113	0.182	0.214	25.1	1.0	9-90

Cable Identification:

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

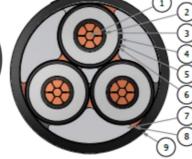
Installation conditions:

- Conductor temperature maximum 90°C
- Depth of laying 800 mm
- Ambient temperature 30°C in free air (shaded)
- Soil thermal resistivity 1.2 K.m/W. Ground temperature 25°C.

Note: Under ground installation is only permitted if the cable is adequately protected against mechanical damage.

Revision: R00 13/02/2018





Item	Description
1	Copper Conductor annealed
2	Semi-conductive conductor screen
3	TR XLPE insulation
4	Semi-conductive core screen
5	Semi-conductive bedding tape
6	Individual Copper tape screen
7	PP Filler
8	Binding tape
9	Sheath



