

## 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

**Voltage Rating:** 19/33kV

### Construction

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

Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Maximum pulling force on combined conductors	Current rating			Resistance		Reactance	Impedance	Capacitance	Short circuit ratings		Recommended Gland size
								Amps			$\Omega/\text{km max}$					Symmetrical	Max. Earth fault	
								air	ground	ducts	dc @ 20°C	ac @ 90°C						
mm <sup>2</sup> Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm min.	kN					$\Omega/\text{km}$	$\Omega/\text{km}$	$\mu\text{F}/\text{km}$	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.

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