

3 Core Copper, XLPE Insulated, FRPVC / LHFRPVC (Type B) Unarmoured

SIZE CODE: XL3 x(conductor size) FR / LH UA 6.6kV

Application
For use in power circuits of 3.8 / 6.6kV earthed systems. Installed in cable trays, ducts and underground.

Specification: SANS 1339

Voltage Rating: 3.8 / 6.6kV

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			Ω/km max					Symmetrical	Max.Earth fault	
								air	ground	ducts	dc @ 20°C	ac @ 90°C						
25	6.1	14.8	39.9	2.1	977	479	294	138	130	116	0.727	0.927	0.126	0.936	0.276	3.4	1.0	4-40
35	7.2	15.9	42.5	2.5	1,110	510	412	166	158	140	0.524	0.668	0.119	0.679	0.307	4.7	1.0	4-40
50	8.3	17.0	45.1	3.0	1,246	541	588	209	195	167	0.387	0.494	0.114	0.507	0.337	6.4	1.0	5-50
70	10.0	18.7	49.0	3.8	1,590	588	823	257	237	200	0.268	0.342	0.108	0.359	0.384	9.3	1.0	5-50
95	11.8	20.5	52.3	4.5	1,803	628	1,117	314	279	237	0.193	0.247	0.103	0.267	0.434	12.9	1.0	6-63
120	13.1	21.8	55.3	5.4	2,163	664	1,411	356	316	270	0.153	0.196	0.097	0.219	0.470	16.2	1.0	6-63
150	14.8	23.5	59.2	6.4	2,461	711	1,764	409	353	307	0.124	0.159	0.094	0.185	0.516	20.0	1.0	6-63
185	16.4	25.1	62.8	7.5	2,814	753	2,176	466	400	344	0.099	0.128	0.091	0.157	0.558	25.1	1.0	6-63

Cable Identification:

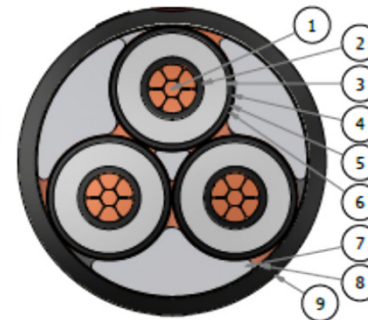
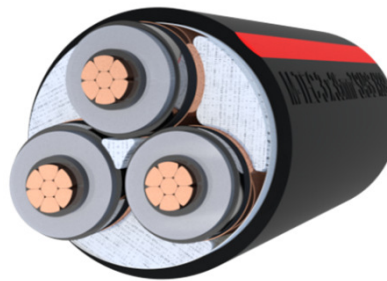
FRPVC (red stripe), LHFRPVC (blue stripe), HFFR (white stripe), PE (no stripe).

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 22/02/2016



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

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