

3 Core
Aluminium, XLPE Insulated, FRPVC / LHFRPVC (Type B), Non-armoured

SIZE CODE: XLAUA 3 x(conductor size) FR / LH 11kV

Application
For use in power circuits of 6.35 / 11kV earthed systems. Installed in cable trays and ducts.

Specification: SANS 1339
Voltage Rating: 6.35 / 11kV

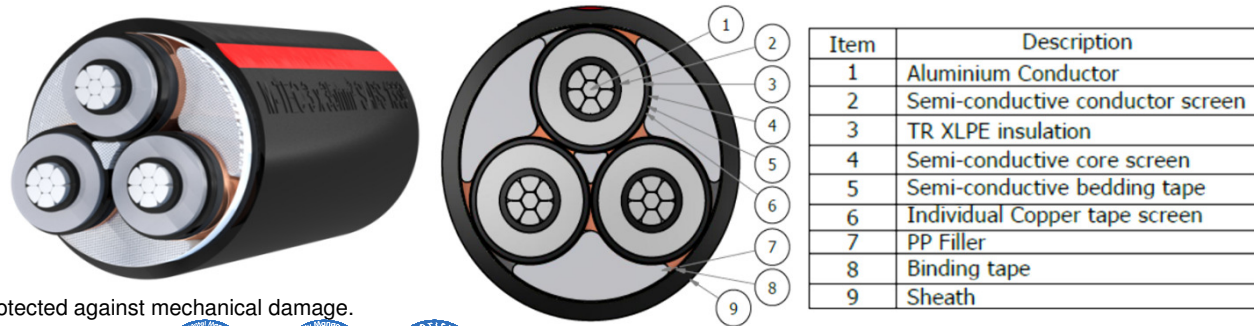
Construction
3 Core, circular stranded Aluminium Conductor, XLPE Insulated, Individually copper tape screened, flame retardant / low halogen flame retardant PVC sheathed.

Physical properties and dimensions							Electrical Properties									
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Current rating			Resistance		Inductive reactance	Impedance	Capacitance	Short circuit ratings	
							Amps	Ω/km max		Symmetrical	Max. Earth fault					
								air	ground			ducts	dc @ 20°C	ac @ 90°C	Ω/km	Ω/km
25	6.0	16.2	43.2	1.9	913	647	109	107	88	1.200	1.539	0.136	1.545	0.213	2.2	1.0
35	7.1	17.3	45.7	2.2	996	686	133	126	107	0.868	1.113	0.129	1.120	0.236	3.0	1.0
50	8.2	18.4	48.3	2.4	1 065	725	162	149	126	0.641	0.822	0.123	0.831	0.259	4.1	1.0
70	10.0	20.1	52.2	2.8	1 293	783	200	181	153	0.443	0.568	0.116	0.580	0.293	5.9	1.0
95	11.8	22.0	55.7	3.0	1 361	836	238	214	186	0.320	0.411	0.107	0.425	0.331	8.2	1.0
120	13.1	23.2	58.8	3.4	1 584	881	280	246	209	0.253	0.325	0.104	0.341	0.357	10.3	1.0
150	14.8	25.0	62.6	3.9	1 724	939	314	274	237	0.206	0.265	0.100	0.283	0.391	12.7	1.0
185	16.4	26.5	66.2	4.5	1 888	993	366	312	270	0.164	0.211	0.097	0.232	0.422	15.9	1.0
240	18.9	29.1	71.9	5.2	2 110	1078	428	353	312	0.125	0.162	0.094	0.187	0.474	20.9	1.0
300	21.2	31.4	77.3	6.0	2 395	1159	485	405	349	0.100	0.130	0.091	0.159	0.578	26.2	1.0
400	23.9	34.5	83.5	7.5	2 785	1253	542	446	391	0.0778	0.102	0.087	0.135	0.578	33.6	1.0

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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