

3 Core

Copper, XLPE Insulated, HFFR SWA, HFFR (Type A) Armoured

SIZE CODE: XL 3x(conductor size)ZH 11kV

Application

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

Specification: SANS 1339

Voltage Rating: 6.35/11kV

Construction

3 Core, Circular Copper Stranded Conductor, XLPE Insulated, individually copper tape screened, flame retardant halogen free bedded, galvanized steel wire armoured, flame retardant halogen free sheathed.

Physical properties and dimensions											Electrical Properties									
Conductor Size	Conductor diameter	Insulation diameter	Bedding diameter	Armour			Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Current rating			Resistance Ω /km max		Reactance Ω /km	Impedance Ω /km	Capacitance μ F/km	Short circuit ratings	
				diameter	wire diameter	total area					Amps			dc @ 20°C	ac @ 90°C				Symmetrical	Earth fault
				mm Nom.	mm Nom.	mm ² Min.					air	ground	ducts							
25	6.0	16.2	40.5	45.5	2.50	255.3	50.4	4.5	1 696	604	138	130	116	0.727	0.927	0.132	0.936	0.213	3.4	10.1
35	7.1	17.3	42.8	47.8	2.50	270.0	53.0	5.1	1 869	635	166	158	140	0.524	0.668	0.129	0.681	0.236	4.7	10.7
50	8.2	18.4	45.4	50.4	2.50	289.6	55.7	5.7	2 063	669	209	195	167	0.387	0.494	0.125	0.509	0.259	6.4	11.5
70	9.9	20.1	49.1	54.1	2.50	309.3	59.6	6.7	2 458	715	257	237	200	0.268	0.342	0.111	0.360	0.249	9.3	12.2
95	11.8	21.9	53.3	58.3	2.50	328.9	64.0	7.9	2 812	768	314	279	237	0.193	0.247	0.107	0.269	0.331	12.9	13.0
120	13.1	23.2	56.3	61.3	2.50	353.4	67.4	9.0	3 258	809	356	316	270	0.153	0.196	0.104	0.222	0.357	16.2	14.0
150	14.8	24.9	60.0	66.3	3.15	467.6	72.6	11.0	3 845	871	409	353	307	0.124	0.159	0.098	0.187	0.391	20.0	18.5
185	16.3	26.5	63.5	69.8	3.15	498.8	76.4	12.5	4 313	917	466	400	344	0.0991	0.128	0.095	0.159	0.422	25.1	19.8
240	18.9	29.0	75.5	75.5	3.15	537.7	82.5	14.8	4 999	990	542	456	395	0.0754	0.098	0.091	0.134	16.350	32.9	21.3
300	21.2	31.3	74.4	80.7	3.15	584.5	88.1	17.3	5 732	1057	618	502	437	0.0601	0.080	0.088	0.119	17.900	41.3	23.1

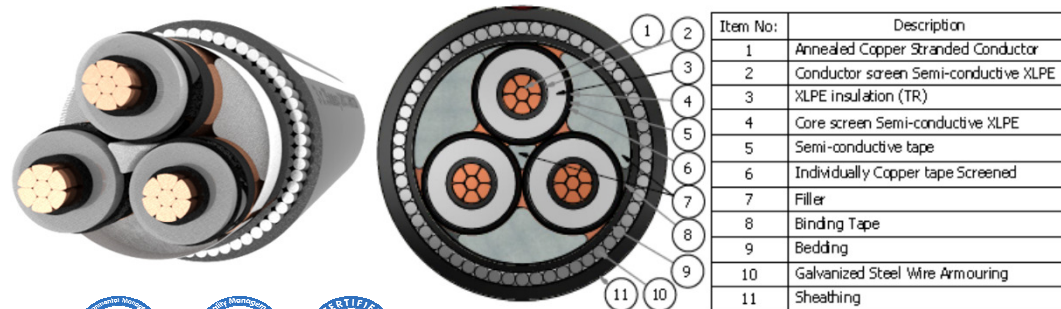
Cable Identification:

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.

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