

## Single Core

Copper, XLPE Silane Insulated, Unarmoured, HFFR Sheathed.

### Application:

For use in power circuit systems of 600 / 1000V. Installed in Cable trays and Ducts.

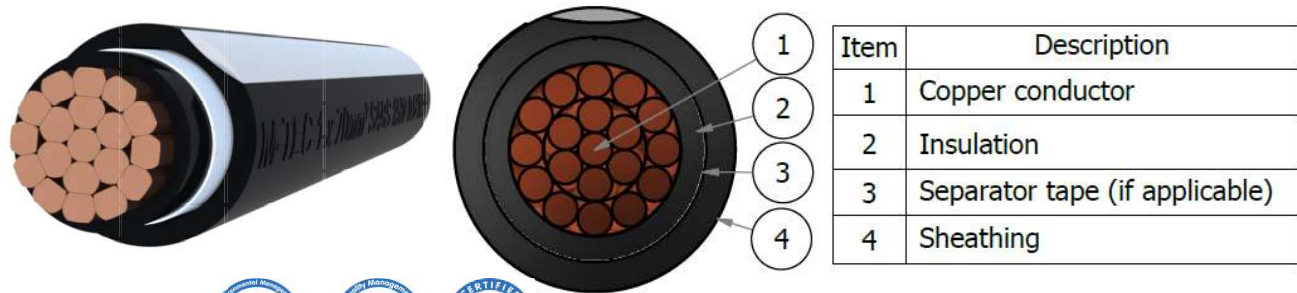
### Construction:

Single core, circular Copper stranded conductor, XLPE insulated, separator tape, HFFR sheath.

Voltage Rating: 600 / 1000V

Specification: SANS 1507-5

SIZE CODE		CPPX 1x(conductor size)ZH 1kV															
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass 1000m	Bending radius	Current rating Trefoil		Resistance Ω/km max		Reactance Ω/km	Impedance Ω/km	Capacitance Ω/km	Short circuit symmetrical kA (1sec)	Volt Drop		
							A air	A ducts	dc @ 20°C	ac @ 90°C					Single phase	3 Phase	
mm <sup>2</sup> Nom	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.								mV/A/m			
16	4.80	6.2	9.6	0.22	576	77	105	90	1.15	1.47	0.109	1.471	0.548	1.85	2.94	2.55	
25	6.05	7.8	11.2	0.32	681	90	135	115	0.73	0.93	0.104	0.933	0.321	2.92	1.87	1.62	
35	7.15	8.9	12.3	0.42	779	99	165	139	0.52	0.67	0.100	0.676	0.620	4.05	1.35	1.17	
50	8.25	10.3	14.0	0.56	920	112	199	165	0.39	0.50	0.099	0.506	0.640	5.49	1.01	0.88	
70	9.95	12.2	15.9	0.77	1,135	128	253	204	0.27	0.35	0.095	0.361	0.694	7.92	0.72	0.63	
95	11.80	14.0	17.8	1.06	1,420	142	312	246	0.19	0.26	0.088	0.275	0.811	11.00	0.55	0.48	
120	13.10	15.5	19.3	1.28	1,641	154	361	280	0.15	0.22	0.087	0.236	0.822	13.88	0.47	0.41	
150	14.80	17.6	21.4	1.57	1,929	171	403	312	0.12	0.19	0.086	0.209	0.796	17.12	0.42	0.36	
185	16.35	19.6	23.4	1.94	2,300	187	463	353	0.10	0.17	0.084	0.186	0.770	21.42	0.37	0.32	
240	18.90	22.3	26.5	2.54	2,897	212	544	407	0.08	0.13	0.084	0.158	0.832	28.16	0.32	0.27	
300	21.20	24.8	28.2	3.09	3,448	226	616	455	0.06	0.12	0.080	0.140	0.877	35.32	0.28	0.24	
400	23.90	28.0	32.2	3.97	4,332	257	705	499	0.05	0.09	0.080	0.124	0.887	45.17	0.25	0.21	
500	27.20	31.7	36.3	5.09	5,447	290	816	580	0.04	0.08	0.079	0.111	0.915	58.00	0.22	0.19	



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