

**4 Core**  
90° Shaped Stranded Aluminium, XLPE, HFFR, SWA, HFFR.

**Application:**

For use in power circuits of 600/1 000V earthed systems. Installed in cable trays, ducts and direct buried.

**Construction:**

4 Core, 90° sector shaped stranded Aluminium conductor, XLPE insulated, halogen free flame retardant bedding, steel wire armoured and halogen free sheath

Voltage Rating: 600/1 000V

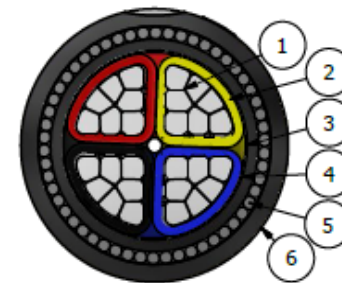
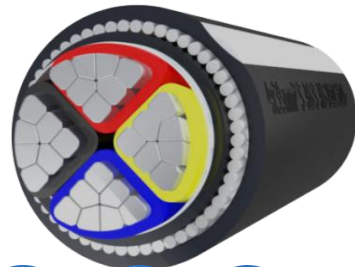
Specification: SANS 1507-5

**SIZE CODE**

**APSX 4x(conductor size)ZH 1kV**

Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable Gross mass	Bending radius	Maximum pulling force on conductors combined	Current rating			Reactance	Resistance		Impedance	Capacitance	Short circuit ratings		3 Phase Volt Drop
										Amps				Ω/km max				Symmetrical	Earth fault	
mm <sup>2</sup> Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm min.	N	air	ground	ducts	Ω /km	dc @ 20°C	ac @ 90°C	Ω /km	μF/km	kA (1sec)	mV/A/m	
25	5.8	7.5	20.2	22.7	26.0	1.2	508	260	265	100	107	87	0.099	1.20	1.54	1.542	0.818	2.4	3.3	2.67
35	6.8	8.5	22.5	25.7	29.0	1.5	617	290	371	119	126	102	0.096	0.87	1.11	1.117	0.942	3.3	4.7	1.93
50	7.8	9.8	25.4	28.6	32.1	1.8	691	321	530	147	153	126	0.096	0.64	0.82	0.827	0.974	4.8	5.4	1.43
70	9.5	11.7	30.0	34.0	37.7	2.5	947	377	741	185	186	153	0.092	0.44	0.57	0.575	1.060	6.7	7.9	1.00
95	11.1	13.3	33.8	37.8	41.9	3.2	1,148	419	1,006	223	223	186	0.090	0.32	0.41	0.420	1.226	9.0	8.9	0.73
120	12.5	14.9	37.5	41.5	45.6	3.7	1,305	456	1,271	266	256	214	0.089	0.25	0.32	0.336	1.260	11.4	9.8	0.58
150	14.0	16.8	42.3	47.3	51.8	4.8	1,713	518	1,589	304	288	237	0.089	0.21	0.26	0.279	1.211	14.3	13.8	0.48
185	15.6	18.8	46.9	51.9	56.8	5.7	1,972	568	1,959	352	326	274	0.090	0.16	0.21	0.229	1.181	17.6	15.4	0.40
240*	18.4	21.8	56.7	61.7	67.1	7.2	2,433	671	2,542	418	381	316	0.094	0.13	0.16	0.186	1.295	22.8	18.7	0.32
300*	20.5	24.1	62.3	67.3	73.0	8.5	2,813	730	3,177	485	428	358	0.094	0.10	0.13	0.159	1.357	28.5	20.5	0.28

Note: \* These cables are manufactured with circular conductors.



Item	Description
1	Conductor
2	Insulation
3	Separator / binding tape
4	Bedding
5	Steel Wire Armouring
6	Sheathing

Revision: R00 10/11/2015