

4 Core 90° Shaped stranded Aluminium, XLPE, FRPVC, SWA, FRPVC.

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

Voltage Rating: 600 / 1 000V
Specification: SANS 1507-4

Construction:
4 Core, 90° sector shaped (Circular for 300 SQMM) stranded Aluminium conductor, XLPE insulated, flame retardant PVC bedding, steel wire armoured and flame retardant PVC sheath.

SIZE CODE					APSX 4x(conductor size)FR 1kV														
Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable Gross mass	Bending radius	Current rating			Reactance	Impedance	Resistance		Capacitance	Short circuit ratings		3 Phase volt drop
									Amps					Ω/km max	Ω/km		μF/km	Symmetrical	
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm min.	air	ground	ducts	Ω /km	Ω /km	dc @ 20°C	ac @ 90°C	μF/km	kA (1sec)	mV/A/m	
25	5.7	7.6	20.2	22.7	26.2	1.1	499	262	100	107	87	0.099	1.542	1.20	1.54	0.494	2.4	3.3	2.67
35	6.7	8.6	22.5	25.7	29.4	1.3	558	294	119	126	102	0.097	1.117	0.87	1.11	0.570	3.3	4.7	1.93
50	7.8	9.8	25.4	28.6	32.3	1.8	697	323	147	153	126	0.096	0.827	0.64	0.82	0.592	4.8	5.4	1.43
70	9.4	11.7	30.0	34.0	38.1	2.7	998	381	185	186	153	0.092	0.575	0.44	0.57	0.645	6.7	7.9	1.00
95	11.1	13.3	33.8	37.8	42.3	3.1	1 129	423	223	223	186	0.090	0.420	0.32	0.41	0.746	9.0	8.9	0.73
120	12.5	14.9	37.5	41.5	46.4	3.6	1 277	464	266	256	214	0.089	0.336	0.25	0.32	0.770	11.4	9.8	0.58
150	14.0	16.8	42.3	47.3	52.2	4.7	1 679	522	304	288	237	0.090	0.279	0.21	0.26	0.742	14.3	13.8	0.48
185	15.6	18.8	46.9	51.9	57.2	5.5	1 905	572	352	326	274	0.090	0.229	0.16	0.21	0.726	17.6	15.4	0.40
240	18.4	22.3	56.9	61.9	67.7	7.2	2 417	677	418	381	316	0.095	0.186	0.13	0.16	0.707	22.8	18.7	0.32
300*	21.2	24.8	64.1	69.1	75.3	7.8	2 602	753	485	428	358	0.094	0.159	0.10	0.13	0.864	28.5	20.8	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: R01 07/04/2022

