

4 Core

90° Shaped stranded Aluminium, PVC, PVC, SWA, FRPVC / LHFRPVC.

Application:

For use in power circuits of 600 / 1 000V earthed systems. installed in cable trays, ducts and underground.

Construction:

4 Core, stranded Aluminium sector shaped conductor, PVC insulated, PVC bedding, steel wire armoured and flame retardant PVC or low halogen flame retardant PVC sheath.

Voltage Rating: 600 / 1 000V

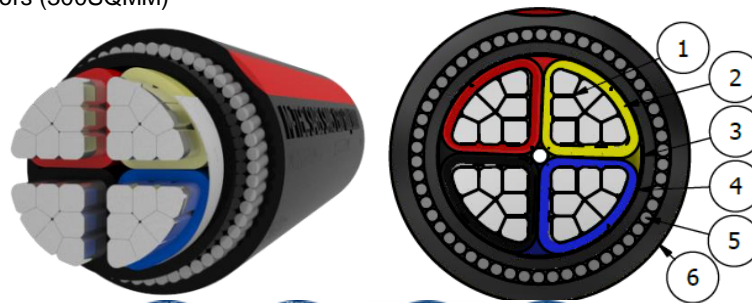
Specification: SANS 1507-3

SIZE CODE

APS 4x(conductor size) FR / LH 1kV

Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable gross mass	Bending radius	Current rating			Reactance	Resistance		Impedance	Capacitance	Short circuit ratings		3 Phase Volt Drop
									air	Amps			Ω/km max	Symmetrical			Earth fault		
										ground	ducts							dc @ 20°C	
25	5.8	8.2	21.6	24.1	27.5	1.3	559	275	80	90	73	0.087	1.200	1.44	1.444	0.635	1.9	3.5	2.50
35	6.8	9.2	23.9	27.1	30.8	1.8	687	308	99	108	87	0.084	0.868	1.04	1.046	0.718	2.7	5.0	1.81
50	7.8	10.7	27.3	30.5	34.6	2.2	809	346	119	129	104	0.084	0.641	0.77	0.775	0.703	3.8	9.0	1.34
70	9.5	12.3	31.4	35.4	39.5	2.9	1,083	395	151	158	130	0.081	0.443	0.53	0.538	0.843	5.3	8.4	0.93
95	11.1	14.4	36.2	40.2	45.1	3.7	1,306	451	186	192	157	0.078	0.320	0.38	0.392	0.854	7.2	9.5	0.68
120	12.5	15.8	39.8	44.8	49.7	4.7	1,599	497	216	219	179	0.077	0.253	0.30	0.313	0.949	9.1	13.1	0.54
150	14.0	17.7	44.2	49.2	54.1	5.4	1,878	541	250	245	201	0.077	0.206	0.25	0.259	0.948	11.4	14.4	0.45
185	15.6	19.7	48.8	53.8	59.1	6.3	2,162	591	287	278	229	0.077	0.164	0.20	0.211	0.963	14.1	15.9	0.37
240	18.5	22.9	56.1	61.1	67.3	7.7	2,571	673	344	324	268	0.076	0.125	0.15	0.168	1.050	18.2	18.2	0.29
300*	21.2	26.1	66.6	72.9	79.0	10.6	3,443	790	396	366	304	0.075	0.100	0.12	0.142	1.075	22.8	27.3	0.25

Note: * These cables are manufactured with circular conductors (300SQMM)



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

Revision: R03 12/11/2020



The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of M-TEC. The information is believed to be correct at the time of issue to the best of M-TEC's knowledge. M-TEC reserves the right to amend this specification without prior notification. This specification is not contractually valid unless specifically authorised by M-TEC. M-TEC shall not be liable for any damages whatsoever (including indirect, accidental, special, punitive or consequential damages and loss of profits, opportunities or information) arising from or result from the use of or reliance on information contained in this document, and/or any inaccuracy or omission in such information contained in this document.