

Low Voltage PVC Cables

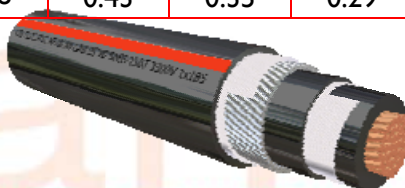
HGPVC
FRPVC AWA FRPVC (red stripe)
LHPVC AWA LHPVC (blue stripe)

F4DC... Primary group code
...141 Finish code
...242

Copper 1 Core
1900/3300V
SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm ² nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	13.5	15.0	16.5	19.0	21.5	24.0	27.5	30.5	35.0	39.0
Insulation diameter	mm app.	13.0	14.5	16.5	18.0	19.5	21.0	23.5	26.5	29.5	33.5	36.5	40.0	45.5
Bedding diameter	mm app.	14.5	16.5	19.0	20.5	22.0	23.5	26.0	29.0	32.5	36.0	39.5	43.5	48.5
Armour diameter	mm app.	18.0	19.5	22.0	24.5	25.0	27.0	29.0	33.0	36.5	40.0	44.5	48.5	53.5
Cable diameter	mm app.	22.0	23.5	26.5	28.0	29.5	31.5	33.5	38.0	41.5	46.0	50.5	54.0	59.5
Cable mass	kg/m app.	1.1	1.4	1.8	2.0	2.4	2.8	3.4	4.5	5.4	6.6	8.4	10.5	12.5
Gross mass (500 m)	kg app.	415	525	685	815	965	1160	1470	16620	18400	20150	22400	4585	5625
Bending radius	mm min.	440	470	530	560	590	630	670	580	650	720	790	1080	1190
Current rating	(trefoil)													
In ground	Amps	181	222	265	300	336	377	431	482	532	584	637	666	699
In duct	Amps	178	214	249	276	305	336	373	408	434	463	498	518	548
In air	Amps	183	229	284	327	371	426	500	571	649	729	817	881	949
Resistance														
dc @ 20°C	Ω/km max	0.387	0.268	0.193	0.153	0.124	0.099	0.075	0.060	0.047	0.037	0.028	0.022	0.018
ac @ 70°C	Ω/km max	0.464	0.322	0.232	0.185	0.150	0.121	0.094	0.076	0.062	0.051	0.042	0.028	0.023
Reactance	Ω/km	0.092	0.086	0.082	0.080	0.078	0.077	0.075	0.074	0.073	0.073	0.072	0.071	0.070
Impedance	Ω/km	0.473	0.333	0.246	0.201	0.169	0.143	0.120	0.107	0.096	0.089	0.083	0.076	0.074
Short circuit ratings														
Symmetrical	kA (1sec)	6.0	8.7	12.1	15.2	18.8	23.5	30.9	38.8	49.6	63.7	82.4	105.5	132.5
Earth fault	kA (1sec)	5.1	5.6	6.5	6.9	7.4	8.0	8.7	12.4	13.6	15.3	20.7	22.9	25.6
(Three Phase) Volt Drop	mV/A/m	0.82	0.58	0.43	0.35	0.29	0.25	0.21	0.19	0.17	0.15	0.14	0.13	0.13

When ordering please quote: primary + size + finish code
e.g. F4DC 1050 141



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