

HGPVC	F4EC...	Primary group code	Copper 3 Core
FRPVC SWA FRPVC(red stripe)	...111	Finish code	3800/6600V
LHPVC SWA LHPVC(blue stripe)	...212		IEC 60502

Size code	...naaa...	*3025	*3035	*3050	3070	3095	3120	3150	3185	3240
Conductor size	mm <sup>2</sup> nom	25	35	50	70	95	120	150	185	240
Conductor diameter	mm app.	6.5	7.5	8.5	8.5	10.0	11.0	12.5	14.0	16.0
Insulation diameter	mm app.	13.5	14.5	15.5	15.5	17.0	18.0	19.5	21.0	23.0
Bedding diameter	mm app.	30.5	32.5	35.0	35.0	38.5	41.5	43.5	47.0	52.0
Armour diameter	mm app.	34.5	36.5	40.0	39.0	43.5	46.0	49.0	52.0	57.0
Cable diameter	mm app.	39	41	45	43.5	49	51	54.5	58	63
Cable mass	kg/m app.	3.05	3.50	4.45	4.60	6.10	7.00	8.00	9.50	11.40
Gross mass ( 300 m )	kg app.	1075	1210	1495	1540	1990	2260	2560	3200	3880
Bending radius	mm min.	390	410	450	435	490	510	545	580	630
Current rating										
In ground	Amps	110	130	160	195	235	265	295	340	385
In air	Amps	100	125	155	190	230	275	310	355	420
Resistance										
dc @ 20°C	Ω/km max	0.73	0.52	0.39	0.27	0.19	0.15	0.12	0.10	0.08
ac @ 70°C	Ω/km max	0.87	0.63	0.46	0.32	0.23	0.18	0.15	0.12	0.09
Zero Sequence Resistance	Ω/km	0.095	0.091	0.085	2.617	1.889	1.747	1.628	1.498	1.362
Zero Sequence Reactance	Ω/km	3.433	3.014	2.240	0.088	0.082	0.080	0.078	0.076	0.074
Reactance	Ω/km	0.113	0.108	0.104	0.085	0.080	0.077	0.075	0.072	0.070
Impedance	Ω/km	0.877	0.637	0.475	0.332	0.245	0.200	0.168	0.141	0.116
Short circuit ratings										
Symmetrical	kA (1sec)	3.2	4.4	6.0	8.7	12.1	15.2	18.8	23.5	30.9
Earth fault	kA (1sec)	7.3	7.9	10.6	8.4	11.6	12.6	13.1	14.1	15.4
(Three Phase) Volt Drop	mV/A/m	1.52	1.10	0.82	0.58	0.42	0.35	0.29	0.24	0.20

Last updated May 2006

\* Circular conductors  
 When ordering please quote: primary + size + finish code  
 e.g. F4EC 3035 111



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