

XLPE  
FRPVC AWA FRPVC (red stripe)  
LHFRPVC AWA LHFRPVC (blue stripe)

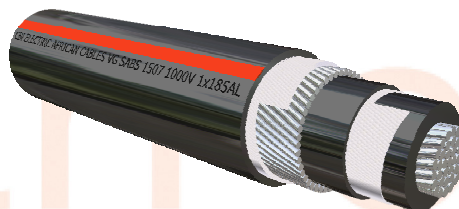
F2CA... Primary group code  
...141 Finish code  
...242

Aluminium I Core  
600/1000V  
SANS 1507

Size code	...naaa...	1050	1070	1095	1120	1150	1185	1240	1300	1400	1500	1630	1800	1999
Conductor size	mm <sup>2</sup> nom	50	70	95	120	150	185	240	300	400	500	630	800	1000
Conductor diameter	mm app.	8.5	10.0	12.0	14.0	14.5	16.0	18.5	21.0	23.5	26.5	30.0	34.5	39.0
Insulation diameter	mm app.	10.5	12.0	14.0	16.0	17.5	19.5	22.0	24.5	27.5	31.0	35.0	40.0	45.0
Bedding diameter	mm app.	12.5	14.0	16.0	19.0	20.5	22.0	25.0	27.0	30.5	34.5	38.0	44.0	49.0
Armour diameter	mm app.	16.0	17.5	19.5	22.5	23.5	25.5	28.0	30.5	34.5	38.5	42.0	49.0	54.0
Cable diameter	mm app.	20.0	21.5	23.5	26.5	28.0	30.0	32.5	35.5	39.5	43.5	48.0	54.5	60.0
Cable mass	kg/m app.	0.7	0.8	1.0	1.2	1.3	1.5	1.8	2.1	2.8	3.3	3.97	5.2	6.2
Gross mass ( 500 m )	kg app.	385	447	524	639	704	831	1003	1211	1540	1827	2284	2897	3392
Bending radius	mm min.	200	215	235	265	280	300	325	355	395	435	480	545	600
Current rating (trefoil)														
In ground	Amps	192	238	292	329	364	412	487	555	560	572	582	588	601
In ducts	Amps	163	202	249	279	310	350	414	472	476	486	495	500	511
In air	Amps	176	220	274	313	348	397	476	548	560	579	597	611	633
Resistance														
dc @ 20°C	Ω/km max	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.078	0.061	0.047	0.037	0.029
ac @ 90°C	Ω/km max	0.822	0.569	0.411	0.325	0.265	0.212	0.163	0.131	0.103	0.082	0.066	0.048	0.039
Reactance	Ω/km	0.079	0.073	0.071	0.073	0.072	0.070	0.071	0.069	0.069	0.068	0.069	0.070	0.069
Impedance	Ω/km	0.826	0.573	0.417	0.334	0.275	0.223	0.177	0.148	0.124	0.107	0.096	0.085	0.079
Zero Sequence														
Resistance	Ω/km	0.340	0.286	0.267	0.287	0.269	0.259	0.261	0.248	0.242	0.237	0.246	0.252	0.248
Reactance	Ω/km	0.649	0.569	0.504	0.469	0.441	0.408	0.389	0.359	0.304	0.290	0.288	0.273	0.265
Short circuit ratings														
Symmetrical	kA (1sec)	2.7	3.8	5.3	6.7	8.3	10.4	13.6	17.0	21.9	28.2	36.3	46.4	58.5
Earth fault	kA (1sec)	3.4	3.8	4.4	5.1	5.3	5.9	6.5	7.2	10.1	11.2	12.5	17.8	19.9
(Three Phase) Volt Drop	mV/A/m	1.43	0.99	0.72	0.58	0.48	0.39	0.31	0.26	0.21	0.19	0.17	0.15	0.14

Last updated May 2006

When ordering please quote: primary + size + finish code  
e.g. F2CA 1050 141



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