



-the nation's live wire-

FLEXIBLE CORDS & CABLES (Cond' d)

CIRCULAR TWO, THREE, OR FOUR CORE 300/500V FLEXIBLE CORDS WITH PVC INSULATION AND PVC SHEATH FOR ORDINARY DUTY (VRF)



Specification: BS 6500

Construction: plain annealed-copper conductors with PVC insulation; two, three or four cores twisted together, then covered with PVC sheath to make cable circular

Colours of Core Identification:

Two core: brown and blue

Three core*: brown, blue and yellow

Four core*: brown, blue, yellow and black

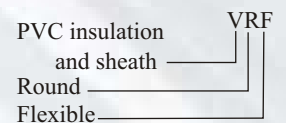
Colour of Sheath

Two and three core: White

Four core: black or white

Application: flexible cords of electrical equipment such as lighting fixtures, household appliances, and small office equipment

Overall dim	Number of cores	Conductor		Radial thickness of insulation mm	Radial thickness of sheath mm	Overall diameter mm	Maximum DC resistance per km at 20°C ohm	Approximate mass per km kg	Standard unit length m
		Nominal cross sectional area mm ²	Number and nominal diameter of wires mm						
4.0 4.2x6.5	2	24.7	16/0.20	0.6	0.8	6.1	39.0	47	100
		0.75	24/0.20	0.6	0.8	6.5	26.0	56	100
		1.0	32/0.20	0.6	0.8	6.9	19.5	65	100
		1.5	30/0.25	0.6	0.8	7.5	13.3	81	100
		2.5	50/0.25	0.7	1.0	9.1	7.98	126	100
		4.0	56/0.30	0.8	1.0	10.8	4.95	177	100
	3	0.5	16/0.20	0.6	0.8	6.5	39.0	55	100
		0.75	24/0.20	0.6	0.8	6.9	26.0	67	100
		1.0	32/0.20	0.6	0.8	7.3	19.5	78	100
		1.5	30/0.25	0.6	0.9	8.1	13.3	102	100
2.5		50/0.25	0.7	1.1	9.8	7.98	159	100	
4	0.5	16/0.20	0.6	0.8	7.0	39.0	65	100	
	0.75	24/0.20	0.6	0.8	7.5	26.0	80	100	
	1.0	32/0.20	0.6	0.8	8.2	19.5	98	100	
	1.5	30/0.25	0.6	0.9	9.0	13.3	127	100	
	2.5	50/0.25	0.7	1.1	10.8	7.98	193	100	
	4.0	56/0.30	0.8	1.1	12.7	4.95	274	100	



CURRENT - CARRYING CAPACITIES AND ASSOCIATED VOLTAGE DROPS AND MASSES SUPPORTABLE, FOR FLEXIBLE CORDS, VRF, VFF AND VTF BS. 6500

Nominal cross-sectional area of conductor mm ²	Maximum diameter of wires forming conductor mm	Current rating dc or single phase ac or three phase ac A	Voltage drop per amp per metre		Maximum Mass supportable by Twin Flexible Cord kg
			Dc or Single phase ac mv	Three phase ac mv	
0.5	0.21	3	85	72	2
0.75	0.21	6	56	48	3
1.0	0.21	10	43	37	5
1.5	0.26	15	31	26	5
2.5	0.26	20	18	16	5
4.0	0.31	25	11	9.6	5

Assumed Ambient Temperature: 35°C

Where the flex is insulated with another material instead of PVC or intended to be used where ambient temperature exceeds 35°C, the appropriate correction factors for the material and situation must be applied