

	ITEM	No.	1	2	3
SR#	H05VV-F CU/PVC/PVC TO BS EN 50525-2-11	UNIT	3X1.5	3X2.5	3X4
1	Type of Cable		H05VV-F CU/PVC/PVC		
2	Standard		BE EN 50525-2-11		
3	Nominal voltage rating	Volts	300/500V		
4	Max . Continous current carrying capacity when laid in air at 30 degree ambient temprature for :				
	Single phase a.c	Amps	16	25	32
	Three phase a.c	Amps	16	20	25
5	Conductors :				
	Material		PLAIN ANNEALED FLEXIBLE COPPER CLASS 5 TO IEC 60228		
	No. of Cores	No	3	3	3
	Nominal cross section	mm ²	1.5	2.5	4
	No. of strands and Dia.(approx)	No/mm	28x0.24	49x0.24	56x0.29
6	Insulation of conductors :				
	Material		FLEXIBLE PVC TYPE T12		
	Nominal thickness	mm	0.7	0.8	0.8
	Core identification		GREEN/YELLOW, BLUE AND BROWN		
7	Sheath :				
	Material		EXTRUDED PVC TYPE TM2		
	Nominal thickness	mm	0.9	1	1.2
	sheath color		WHITE		
	Approx. outer diameter of cable.	mm	8.6	10.3	11.8
8	Maximum DC Resistance of conductor at 20°C	Ohm/km	13.3	7.98	4.95
9	Maximum AC resistamce per core at 70°C	Ohm/km	15.91	9.55	5.92
	Maximum conductor short circuit capacity for 1 sec	KA	0.17	0.29	0.46
10	Maximum conductor operating temprature	°C	70	70	70
11	Minimum allowable bending radius	mm	4D	4D	4D
	Approximate weight of complete cable	kg/km	116	179	246

DATA SHEET

PVC FLEXIBLE CABLE AS PER BS EN 50525-2-11 (H05VV-F)



SR#	ITEM	No.	1	2	3	4	5
	H05VV-F CU/PVC/PVC TO BS EN 50525-2-11	UNIT	4X1.5	4X2.5	4X4	4X6	4X10
1	Type of Cable		H05VV-F CU/PVC/PVC				
2	Standard		BE EN 50525-2-11				
3	Nominal voltage rating	Volts	300/500V				
4	Max . Continous current carryi9ng capacity when laid in air at 30 degree ambient temprature for :						
	Single phase a.c	Amps	16	25	32		
	Three phase a.c	Amps	16	20	25	34	47
5	Conductors :						
	Material		PLAIN ANNEALED FLEXIBLE COPPER CLASS 5 TO IEC 60228				
	No. of Cores	No	4	4	4	4	4
	Nominal cross section	mm ²	1.5	2.5	4	6	10
	No. of strands and Dia.(approx)	No/mm	28X0.24	49X0.24	56X0.29	84X0.3	80X0.4
6	Insulation of conductors :						
	Material		FLEXIBLE PVC TYPE T12				
	Nominal thickness	mm	0.7	0.8	0.8	1	1
	Core identification		GREEN/YELLOW, BLUE AND BROWN				
7	Sheath :						
	Material		EXTRUDED PVC TYPE TM2				
	Nominal thickness	mm	1	1.1	1.2	1.8	1.8
	sheath color		WHITE				
	Approx. outer diameter of cable.	mm	9.6	11.5	12.9	15.7	18
8	Maximum DC Resistance of conductor at 20°C	Ohm/km	13.3	7.98	4.95	3.3	1.91
9	Maximum AC resistamce per core at 70°C	Ohm/km	15.91	9.55	5.92	3.95	2.29
10	Maximum conductor short circuit capacity for 1 sec	KA	0.17	0.28	0.46	0.69	1.15
11	Maximum conductor operating temprature	°C	70	70	70	70	70
12	Minimum allowable bending radius	mm	4D	4D	4D	4D	4D
13	Approximate weight of complete cablle	kg/km	149	229	308	472	687

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PVC FLEXIBLE CABLE AS PER BS EN 50525-2-11 (H05VV-F)



	ITEM	No.	1	2	3
SR#	H05VV-F CU/PVC/PVC TO BS EN 50525-2-11	UNIT	5X1.5	5x2.5	5x4
1	Type of Cable		H05VV-F CU/PVC/PVC		
2	Standard		BE EN 50525-2-11		
3	Rated voltage (Uo/U)	V	300/500		
4	Conductor				
	Number of Core(s)	Nos	5	5	5
	Material	-	Circular Flexible Copper Conductor : Class 5		
	Nominal cross sectional area	mm ²	1.5	2.5	4
	Conductor diameter	mm	1.6	2.1	2.6
5	Insulation				
	Material (core color Blue,Brown,Black,Grey , Green/Yellow)	-	PVC		
	Nominal thickness	mm	0.7	0.8	0.8
	Diameter Over Insulation	mm	3.1	3.8	4.3
6	Extruded PVC Outer Sheath (WHITE)				
	Nominal Thickness	mm	1.1	1.2	0.8
	Overall diameter of cable	mm	11	13	15
7	Weight of complete cable	kg / km	181	274	379
8	Electrical Characteristics				
	Maximum D.C. resistance of conductor at 20°C	W/km	13.3	7.98	4.95
	<i>Conditions upon which current carrying capacities are based :</i>				

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PVC FLEXIBLE CABLE AS PER BS EN 50525-2-11 (H05VV-F)



	ITEM	No.	4	5	6
SR#	H05VV-F CU/PVC/PVC TO BS EN 50525-2-11	UNIT	5X6	5x10	5x16
1	Type of Cable		H05VV-F CU/PVC/PVC		
2	Standard		BE EN 50525-2-11		
3	Rated voltage (Uo/U)	kV	0.6/1	0.6/1	0.6/1
4	Conductor				
	Number of Core(s)	Nos	5	5	5
	Material	-	Circular Flexible Copper Conductor : Class 5		
	Nominal cross sectional area	mm ²	6	10	16
	Conductor diameter	mm	3.2	4.2	5.2
5	Insulation				
	Material (core color Blue,Brown,Black,Grey , Green/Yellow)	-	PVC		
	Nominal thickness	mm	1	1	1
	Diameter Over Insulation	mm	5.3	6.3	7.3
6	Extruded PVC Outer Sheath (WHITE)				
	Nominal Thickness	mm	1.8	1.8	1.8
	Overall diameter of cable	mm	18	20	23
7	Weight of complete cable	kg / km	554	802	1146
8	Electrical Characteristics				
9	Maximum D.C. resistance of conductor at 20°C	W/km	3.3	1.91	1.21
10	A.C.resistance of conductor at 90°C	W/km	3.9486	2.2854	1.448
11	Capacitance	mF / km	0.881	1.096	1.31
12	Charging Current	A/km/Ph	0.166	0.206	0.247
13	Inductive reactance	W/km	0.091	0.085	0.081
14	Inductance	mH/km	0.29	0.27	0.256
15	Impedance	W/km	3.95	2.287	1.45
16	Conditions upon which current carrying capacities are based :				
17	Soil thermal resistivity	°C.m/W	1.2	1.2	1.2
18	Ground temperature	°C	15	15	15
19	Ambient air temperature	°C	30	30	30
20	Burial depth	mm	500	500	500
21	CURRENT CARRYING CAPACITY based on the conditions specified				
22	Installation Type : 3 core				
23	Single Circuit				
24	Laid in ground	Amps	50	67	86
25	Laid in air	Amps	38	52	70
26	Maximum conductor temperature for continuous operation / Short Circuit Operation	°C	70/160	70/160	70/160
27	SHORT CIRCUIT CURRENT Current carrying capacity when the cable is loaded as above prior to short circuit for				
28	Conductor	kA/ 1 sec	0.69	1.15	1.84
29	Minimum bending radius of cable (6 X OD)	mm	108	120	138