Application

H05VV-F flexible cables are suitable for lightweight mobile installations in homes, kitchens, and offices. They are used for connecting portable appliances such as hair dryers, washing machines, and refrigerators. They are also suitable for cooking and heating appliances, provided they are not in contact with hot parts. These cables are not suitable for external use, industrial buildings, or non-domestic portable tools.

Performance

Electrical Performance:
Voltage rating: 300/500V
Chemical Performance:
Resistant to chemicals and oil
Mechanical Performance:
Minimum bending radius: 6 x cable diameter
Thermal Performance:
Maximum service temperature: 60°C
Maximum short-circuit temperature: 150°C (max. 5 seconds)
Minimum service temperature: 5°C
Fire Performance:
Flame retardant
Reduced emission of halogens with chlorine content < 15%

Construction

Phase Conductor:
Annealed copper wire complying with BS 6360 and IEC 60228, Class 5
Insulation:
PVC compound type TI 2
Outer Sheath:
PVC compound type TM 2

Specification

-BS EN 50525-2-11 (previously BS 6500), BASEC Approved
-BS EN/IEC 60332-1-2

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Dimensions				
No. of Cores	Nominal Cross Section Area	Nominal Thickness of Insulation	Nominal Overall Diameter	Nominal Weight
-	mm^2	mm	mm	kg/km
2	0.75	0.6	6.3	57
2	1	0.6	6.6	65
2	1.5	0.7	7.4	84
2	2.5	0.8	9.1	130
3	0.75	0.6	6.7	68
3	1	0.6	7	78
3	1.5	0.7	8.1	108
3	2.5	0.8	9.9	163
3	4	0.8	11.3	227
4	0.75	0.6	7.3	82
4	1	0.6	7.9	100
4	1.5	0.7	9	134
4	2.5	0.8	10.8	201
5	0.75	0.6	8.1	102
5	1	0.6	8.6	120
5	1.5	0.7	10	166

Conductors Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables		
Nominal Cross Section Area	Max. Dia. of Wires in Conductor	Max. Resistance of Conductor at 20℃ Plain Wires
mm^2	mm	Ω/km
0.75	0.21	26
1	0.21	19.5
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
The above table is in accordance with BS EN 60228 (previously BS 6360)		

Technical Parameters

Electrical Characteristics Current Carrying Capacity and Mass Supportable			
Nominal Cross Section Area	Current Carrying Capacity		Max. Mass Supportable by Twin Flexible Cord
	Single-Phase AC	Three-Phase AC	(See Regulations 522.7.2 and 559.6.1.5 of the 17Th Edition of IEE Wiring Regulations)
mm^2	A	A	kg
0.75	6	6	3
1	10	10	5
1.5	16	16	5
2.5	25	20	5
4	32	25	5
The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.			

Voltage Drop		
Nominal Cross Section Area	D.C. Single-phase A.C.	Three-Phase A.C.
mm^2	mV/A/m	mV/A/m
0.75	62	54
1	46	40
1.5	32	27
2.5	19	16
4	12	10
Conductor operating temperature: 60°C		
The above table is in accordance with Table 4F3B of the 17th Edition of IEE Wiring Regulations.		

De-rating Factors De-Rating Factor for Ambient Temperature 60°C Thermoplastic or Thermosetting Insulated Cords					
Air Temperature	35°C	40°C	45°C	50°C	55°C
De-Rating Factor	0.91	0.82	0.71	0.58	0.41
The above table is in accordance with Table 4F3A of the 17th Edition of IEE Wiring Regulations.					