

# H05VV-F

## CU/PVC/ PVC – 300/500 V Cable

### CABLE STANDARDS

ISIRI 607-53 , IEC 60227



### APPLICATION

A set of insulated spray wires that are housed in a PVC sheath is called a cable sprayer. The copper used in these wires is high purity, annealed and class 5 (according to ISIRI 3084 standard). PVC insulation is type D and PVC coating is ST5 type. The national standard for the production of these cables is ISIRI 607-5 with the characteristic code (607) 53 and the national standard ISIRI 607-6 with the characteristic code (607) 71C, which is equivalent to the international standard IEC 60227-5 and IEC 60227-6.

### CONSTRUCTION

#### Conductor

Class 5 stranded copper conductors

#### Insulation

PVC (Polyvinyl Chloride)

#### Filler

PVC

#### Sheath

PVC (Polyvinyl Chloride)

### CHARACTERISTICS

#### Voltage Rating (U<sub>0</sub>/U)

300/500 V

#### Test Voltage

2000 V

#### Temperature Rating

Flexed: +5°C to +70°C

#### Short Circuit Temperature

+160°C

#### Minimum Bending Radius

12 x Overall Diameter for Multi Core

#### Sheath Color

Black

**H05VV-F****CU/PVC/ PVC – 300/500 V Cable**

## Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec Approx	Capacitance  μf.km Approx	Current Capacity At 20°C	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm <sup>2</sup>							
2	0.75	RM.F	26.0	0.089	0.40	12	6.3	56
2	1	RM.F	19.5	0.115	0.41	15	6.5	63
2	1.5	RM.F	13.3	0.173	0.41	19	7.3	82
2	2.5	RM.F	7.98	0.288	0.43	26	9.1	130

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NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec Approx	Capacitance  μf.km Approx	Current Capacity At 20°C	OVERALL DIAMETER  Mm Approx	WEIGHT kg.km Approx
	Conductor mm <sup>2</sup>							
3	0.75	RM.F	26.0	0.089	0.40	12	6.7	67
3	1	RM.F	19.5	0.115	0.41	15	6.9	75
3	1.5	RM.F	13.3	0.173	0.41	19	8.0	104
3	2.5	RM.F	7.98	0.288	0.43	26	9.9	163

**H05VV-F****CU/PVC/ PVC - 300/500 V Cable**

## Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec  Approx	Capacitance  μf.km  Approx	Current Capacity  At 20°C	OVERALL DIAMETER Mm  Approx	WEIGHT  kg.km  Approx
	Conductor  mm <sup>2</sup>							
4	0.75	RM.F	26.0	0.089	0.40	12	7.3	80
4	1	RM.F	19.5	0.115	0.41	15	7.7	95
4	1.5	RM.F	13.3	0.173	0.41	19	8.9	130
4	2.5	RM.F	7.98	0.288	0.43	26	10.8	198

**H05VV-F****CU/PVC/ PVC - 300/500 V Cable**

## Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec Approx	Capacitance  μf.km Approx	Current Capacity At 20°C	OVERALL DIAMETER  Mm Approx	WEIGHT  kg.km Approx
	Conductor  mm <sup>2</sup>							
5	0.75	RM.F	26.0	0.089	0.40	12	8.3	97
5	1	RM.F	19.5	0.115	0.41	15	8.6	110
5	1.5	RM.F	13.3	0.173	0.41	19	10.0	157
5	2.5	RM.F	7.98	0.288	0.43	26	12.1	235

OFOGH ALBORZ INDUSTRIAL GROUP

# H07VV-F

## CU/PVC/ PVC - 450/750 V Cable

### CABLE STANDARDS

ISIRI 607, IEC 60227



### APPLICATION

A set of insulated spray wires that are housed in a PVC sheath is called a cable sprayer. The copper used in these wires is high purity, annealed and class 5 (according to ISIRI 3084 standard). PVC insulation is type D and PVC coating is ST5 type. The national standard for the production of these cables is ISIRI 607-5 with the characteristic code (607) 53 and the national standard ISIRI 607-6 with the characteristic code (607) 71C, which is equivalent to the international standard IEC 60227-5 and IEC 60227-6.

### CONSTRUCTION

#### Conductor

Class 5 stranded copper conductors

#### Insulation

PVC (Polyvinyl Chloride)

#### Filler

PVC

#### Sheath

PVC (Polyvinyl Chloride)

### CHARACTERISTICS

#### Voltage Rating (U<sub>0</sub>U)

450/750 V

#### Test Voltage

2500 V

#### Temperature Rating

Flexed: +5°C to +70°C

#### Short Circuit Temperature

+160°C

#### Minimum Bending Radius

12 x Overall Diameter **for Multi Core**

#### Sheath Color

Black

**H07VV-F****CU/PVC/ PVC - 450/750 V Cable****Technical Specifications**

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec Approx	Capacitance  μf.km Approx	Current Capacity At 20°C	OVERALL DIAMETER Mm Approx	WEIGHT kg.km Approx
	Conductor mm <sup>2</sup>							
2	4	RM.F	4.95	0.460	0.57	42	10.3	174
2	6	RM.F	3.30	0.690	0.67	54	12.0	245
2	10	RM.F	1.91	1.150	0.67	73	14.8	386
2	16	RM.F	1.21	1.918	0.86	98	18.2	605



**H07VV-F****CU/PVC/ PVC - 450/750 V Cable**

## Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec Approx	Capacitance  μf.km Approx	Current Capacity At 20°C	OVERALL DIAMETER  Mm Approx	WEIGHT kg.km Approx
	Conductor mm <sup>2</sup>							
3	4	RM.F	4.95	0.460	0.57	42	11.0	215
3	6	RM.F	3.30	0.690	0.67	54	12.8	303
3	10	RM.F	1.91	1.150	0.67	73	15.8	483
3	16	RM.F	1.21	1.918	0.86	98	19.4	763

**H07VV-F****CU/PVC/ PVC - 450/750 V Cable**

## Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec  Approx	Capacitance  μf.km  Approx	Current Capacity  At 20°C	OVERALL DIAMETER Mm  Approx	WEIGHT  kg.km  Approx
	Conductor  mm <sup>2</sup>							
4	4	RM.F	4.95	0.460	0.57	42	12.6	282
4	6	RM.F	3.30	0.690	0.67	54	14.0	373
4	10	RM.F	1.91	1.150	0.67	73	18.0	628

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## Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA		Max DC Conductor Resistance at 20°C  Ω.km	Short-circuit Current KA 1.sec  Approx	Capacitance  μf.km  Approx	Current Capacity  At 20°C	OVERALL DIAMETER  Mm  Approx	WEIGHT  kg.km  Approx
	Conductor  mm <sup>2</sup>							
5	4	RM.F	4.95	0.460	0.57	42	13.8	346
5	6	RM.F	3.30	0.690	0.67	54	15.3	459
5	10	RM.F	1.91	1.150	0.67	73	19.7	770