H05VV-U

CU/PVC/ PVC – 300/500 V Cable

CABLE STANDARDS

ISIRI 607-4 , IEC 60227

APPLICATION

A set of insulated wire wires encased in a PVC sheath is called a lightweight fixed wire cable. The copper used in these wires is high purity, annealed and class 1 or 2 (according to ISIRI 3084 standard). PVC insulation is type C and PVC coating is ST4. The national standard for the production of these cables is ISIRI 607-4 with the characteristic code (607) 10, which is equivalent to the international .standard IEC 60227-4

CONSTRUCTION

Conductor

Class 1 Solid copper conductors

Insulation

PVC (Polyvinyl Chloride)

Filler

PVC

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U_0/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

OFOGH ALBORZ INDUSTRIAL GROUP

H05VV-U

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Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²		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
2	1.5	RE	12.1	0.195	0.39	20	9.4	134
2	2.5	RE	7.41	0.316	0.42	27	10.5	177
2	4	RE	4.61	0.495	0.50	36	11.6	232
2	6	RE	3.08	0.733	0.58	47	12.6	290
2	10	RE	1.83	1.205	0.60	65	15.4	447

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3	1.5	RE	12.1	0.195	0.39	20	9.8	155
3	2.5	RE	7.41	0.316	0.42	27	11.1	207
3	4	RE	4.61	0.495	0.50	36	12.3	280
3	6	RE	3.08	0.733	0.58	47	13.7	368
3	10	RE	1.83	1.205	0.60	65	16.5	563

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Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²		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
4	1.5	RE	12.1	0.195	0.39	20	10.6	182
4	2.5	RE	7.41	0.316	0.42	27	12.2	253
4	4	RE	4.61	0.495	0.50	36	13.7	344
4	6	RE	3.08	0.733	0.58	47	14.9	440
4	10	RE	1.83	1.205	0.60	65	17.9	678

H05VV-U

CU/PVC/ PVC – 300/500 V Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²		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
5	1.5	RE	12.1	0.195	0.39	20	11.6	222
5	2.5	RE	7.41	0.316	0.42	27	13.1	302
5	4	RE	4.61	0.495	0.50	36	14.8	413
5	6	RE	3.08	0.733	0.58	47	16.3	541
5	10	RE	1.83	1.205	0.60	65	19.7	835

H07VV-R

CU/PVC/ PVC – 450/750 V Cable

CABLE STANDARDS

ISIRI 607-4, IEC 60227

APPLICATION

A set of insulated wire wires encased in a PVC sheath is called a lightweight fixed wire cable. The copper used in these wires is high purity, annealed and class 1 or 2 (according to ISIRI 3084 standard). PVC insulation is type C and PVC coating is ST4. The national standard for the production of these cables is ISIRI 607-4 with the characteristic code (607) 10, which is equivalent to the international standard IEC 60227-4

CONSTRUCTION

Conductor

Class 2 stranded copper conductors

Insulation

PVC (Polyvinyl Chloride)

Filler

PVC

Sheath

PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (U_0.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-R

CU/PVC/ PVC – 450/750 V Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²		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
2	16	RM.V	1.15	1.909	0.76	86	17.96	637
2	25	RM.V	0.727	2.961	0.79	115	21.56	951
2	35	RM.V	0.524	4.126	0.92	143	24.16	1238

H07VV-R

CU/PVC/ PVC – 450/750 V Cable

Technical Specifications

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA Conductor mm²		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
3	16	RM.V	1.15	1.909	0.76	86	19.24	804
3	25	RM.V	0.727	2.961	0.79	115	23.30	1216
3	35	RM.V	0.524	4.126	0.92	143	25.68	1566
3+1	25+16	RM.V	0.727	2.961	0.79	115	24.5	1380
3+1	35+16	RM.V	0.524	4.126	0.92	143	26.5	1711

H07VV-R

CU/PVC/ PVC – 450/750 V Cable

Technical Specifications

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4	16	RM.V	1.15	1.909	0.76	86	21.2	1003
4	25	RM.V	0.727	2.961	0.79	115	25.5	1505
4	35	RM.V	0.524	4.126	0.92	143	28.1	1950

H07VV-R

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Technical Specifications

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5	16	RM.V	1.15	1.909	0.76	86	23.5	1248
5	25	RM.V	0.727	2.961	0.79	115	27.8	1848
5	35	RM.V	0.524	4.126	0.92	143	31.2	2437