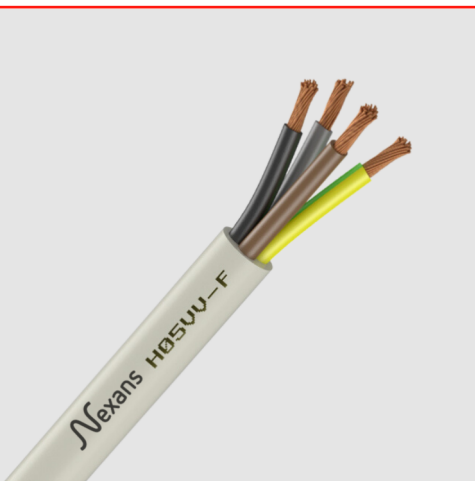




Flexible cable, insulation and outer sheath in PVC, domestic use.

STANDARDS

Product EN 50525-2-11; HD 21.5; IEC 60227-53; NF C32-201/5

APPLICATION

Nexans H05VV-F cables are designed for households. They can only be used for heating and cooking appliances if there is no risk of radiations or contact with hot parts.

Installation

Open air.

Marking

n (x or G) s mm² S.Y + USE HAR H05VV-F N° Usine

- n = number of cores
- s = section in mm²
- G = with Green-Yellow
- x = without Green-Yellow



Conductor flexibility
Flexible class 5



Lead free
Yes



Rated Voltage U_0/U
(Um)
300/500 V



Mechanical
resistance to
impacts
Low



Cable flexibility
Flexible



Max. conductor
temp. in service
70 °C



Operating temp.
-5 ... 60 °C



Weather resistance
AN1

CHARACTERISTICS

Construction characteristics

Conductor flexibility	Flexible class 5
Conductor material	Bare copper
Conductor shape	Circular
Insulation	PVC
Lead free	Yes
Outer sheath	PVC
With smaller neutral conductor	No

Dimensional characteristics

Neutral conductor section (when smaller)	- mm ²
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Electrical characteristics

Rated Voltage U ₀ /U (U _m)	300/500 V
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Mechanical characteristics

Mechanical resistance to impacts	Low
Cable flexibility	Flexible

Usage characteristics

Max. conductor temperature in service	70 °C
Short-circuit max. conductor temperature	150 °C
Operating temperature, range	-5 ... 60 °C
Weather resistance	AN1
Chemical resistance	Accidental
Water proof	Accidental

CURRENT CAPACITY TABLE PVC INSULATION MULTICORE SINGLE PHASE

Conductor cross-section		1		2		3		4		5		6	
[mm²]		Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1.5		14	-	17	-	20	-	22	-	22	-	22	-
2.5		19	15	23	18	27	21	27	22	28	-	30	23
4		25	20	30	24	36	28	37	29	38	-	40	31
6		32	25	38	30	46	36	46	36	48	-	51	39
10		43	33	52	41	63	49	60	47	64	-	70	54
16		57	44	69	54	85	66	78	61	83	63	94	73
25		75	58	90	71	112	83	99	77	110	82	119	89
35		92	71	111	86	138	103	119	93	132	98	148	111
50		110	86	133	104	168	125	140	109	156	117	180	135
70		139	108	168	131	213	160	173	135	192	145	232	173
95		167	130	201	157	258	195	204	159	230	173	282	210
120		192	150	232	181	299	226	231	180	261	200	328	244
150		219	172	258	201	344	261	261	204	293	224	379	282
185		248	195	294	230	392	298	292	228	331	255	434	322
240		291	229	344	269	461	352	336	262	382	298	514	380
300		334	263	394	308	530	406	379	296	427	336	593	439
1	A2 - Multi-core cable in conduit in a thermally insulated wall	2		B2 - Multi-core cable in conduit on a wooden wall				3		C - Single-core or multi-core cable on a wooden wall			
4	D1 - Single-core or Multi-core cable in ducts in the ground	5		D2 - Single-core or Multi-core cables designed to be buried directly in the ground				6		E - Multi-core cable in free air			

CURRENT CAPACITY TABLE PVC INSULATION MULTICORE THREE PHASE

Conductor cross-section		1		2		3		4		5		6	
[mm²]		Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
1.5		13	-	15	-	18	-	18	-	19	-	19	-
2.5		18	14	20	16	24	19	24	19	24	-	25	20
4		23	18	27	21	32	25	30	24	33	-	34	26
6		29	23	34	27	41	32	38	30	41	-	43	33
10		39	31	46	36	57	44	50	39	54	-	60	46
16		52	41	62	48	76	59	64	50	70	53	80	61
25		68	53	80	62	96	73	82	64	92	69	101	78
35		83	65	99	77	119	90	98	77	110	83	126	96
50		99	78	118	92	144	110	116	91	130	99	153	117
70		125	98	149	116	184	140	143	112	162	122	196	150
95		150	118	179	139	223	170	169	132	193	148	238	183
120		172	135	206	160	259	197	192	150	220	169	276	212
150		196	155	225	176	299	227	217	169	246	189	319	245
185		223	176	255	199	341	259	243	190	278	214	364	280
240		261	207	297	232	403	305	280	218	320	250	430	330
300		298	237	339	265	464	351	316	247	359	282	497	381
1	A2 - Multi-core cable in conduit in a thermally insulated wall	2		B2 - Multi-core cable in conduit on a wooden wall				3		C - Single-core or multi-core cable on a wooden wall			
4	D1 - Single-core or Multi-core cable in ducts in the ground	5		D2 - Single-core or Multi-core cables designed to be buried directly in the ground				6		E - Multi-core cable in free air			