

RHEYFLAT® Y H07VVH6-F

PVC Flat Cables

450/750 V

Approval/Certificates

VDE

Applications

Power and control cable used e.g. for handling- and festoon systems, machine tools and elevators.

For applications with low mechanical stresses, especially frequent bending in one level only.

Design

1. Conductor

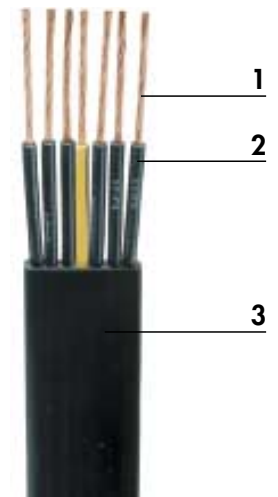
Copper bare, flexible stranded, class 5 according to IEC 60228, DIN VDE 0295

2. Insulation

PVC (polyvinylchloride) according DIN VDE 0207 part 4

3. Outer sheath

PVC (polyvinylchloride) according to DIN VDE 0207 part 5
Colour: black



Marking

e.g.
H07VVH6-F 4G1,5mm²
Year-week of production

Core identification

(DIN VDE 0293 part 308/HD 308 S2)

Colour code:

4 cores: green/ yellow-brown-
black-grey

5 cores: green/ yellow-blue-
brown-black-grey

≥ 5 cores: black with printed
numbers

Standards

DIN VDE 0281 part 404

HD 359 S2

IEC 60227 part 6

Options

Further numbers of cores and cross-sections upon request

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Cable characteristics

Mechanical properties			
Minimum bending radii:	outer diameter d		
	< 8 mm	8 - 12 mm	> 12 mm
Flexible operation	3 d	4 d	5 d
Forced guidance e.g.:			
Festoon systems	3 d	4 d	5 d
E-Chain cable carrier systems	4 d	4 d	5 d
Fixed installation	3 d	3 d	4 d
Travelling speed up to 120 m/min (festoon application)			

Chemical properties
Suitable for indoor applications

Electrical and Thermal properties	
Nominal voltage	$U_o/U = 450/750$ kV
Maximum operating voltage in AC systems	$U_o/U = 495/825$ kV
Maximum operating voltage in DC systems	$U_o/U = 743/1238$ kV
AC test voltage	2,500 V
Maximum admissible conductor temperature	
in service	+ 70 °C
in short circuit	+ 150 °C
Maximum admissible surface temperature	
fixed installation	- 40 °C to +70 °C
flexible operation	- 25 °C to +70 °C

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Technical data

Number of cores and nominal cross-section mm ²	Art. No.	Permissible current rating (A)**	ΔU (cos φ 0.8) Voltage drop (V/A x km)	Approx. outer diameter mm	Approx. weight kg/km
4G 1.5 *	7817 1304	19	20.2	5.0 x 15.0	150
5G 1.5 *	7817 1305	19	20.2	5.0 x 18.0	180
7G 1.5 *	7817 1307	14	20.2	5.0 x 27.0	265
8G 1.5 *	7817 1308	14	20.2	5.0 x 29.0	295
10G 1.5 *	7817 1310	12	20.2	5.0 x 36.0	355
12G 1.5	7817 1312	11	20.2	5.0 x 41.0	415
14G 1.5	7817 1314	10	20.2	5.0 x 47.5	490
16G 1.5	7817 1316	10	20.2	5.0 x 53.5	560
18G 1.5	7817 1318	9	20.2	5.0 x 58.0	620
24G 1.5 *	7817 1324	8	20.2	5.0 x 80.0	790
4G 2.5 *	7817 1404	27	12.3	5.7 x 18.5	250
5G 2.5 *	7817 1405	27	12.3	5.7 x 22.0	280
7G 2.5 *	7817 1407	20	12.3	5.7 x 33.5	385
8G 2.5 *	7817 1408	20	12.3	5.7 x 37.0	430
10G 2.5	7817 1410	16	12.3	5.7 x 43.0	530
12G 2.5 *	7817 1412	15	12.3	5.7 x 51.0	630
24G 2.5 *	7817 1424	11	12.3	5.7 x 92.0	1,100
4G 4 *	7817 1504	36	7.8	6.9 x 21.5	320
5G 4 *	7817 1505	36	7.8	6.9 x 26.0	390
7G 4	7817 1507	27	7.8	6.9 x 38.0	560
12G 4	7817 1512	20	7.8	6.8 x 57.0	880
4G 6 *	7817 1604	46	5.3	7.6 x 24.5	430
5G 6 *	7817 1605	46	5.3	7.6 x 29.5	530
7G 6 *	7817 1607	35	5.3	7.0 x 41.0	750
4G 10 *	7817 1704	64	3.2	9.6 x 31.0	690
5G 10	7817 1705	64	3.2	9.0 x 34.5	780
4G 16 *	7817 1804	86	2.0	10.9 x 35.5	970
5G 16 *	7817 1805	86	2.0	13.0 x 50.0	1,450
4G 25 *	7817 1854	114	1.3	12.7 x 41.5	1,405
4G 35 *	7817 1904	142	0.97	15.7 x 49.0	2,035
4G 50	7817 0001	176	0.74	19.1 x 61.5	3,000
4G 70	7817 0003	218	0.55	21.0 x 64.0	4,100
4G 95	7817 0004	262	0.42	20.5 x 72.5	4,550

* stock types

** ambient temperature 30 °C