

H07VVH6-F
PVC flat cables



H07VVH6-F PVC flat cables

450/750 V

Applications

Power and control flat cables can be used on festoon systems on handling equipments e.g. overhead cranes. Specially designed for indoor and outdoor applications.

Design

1. Conductor

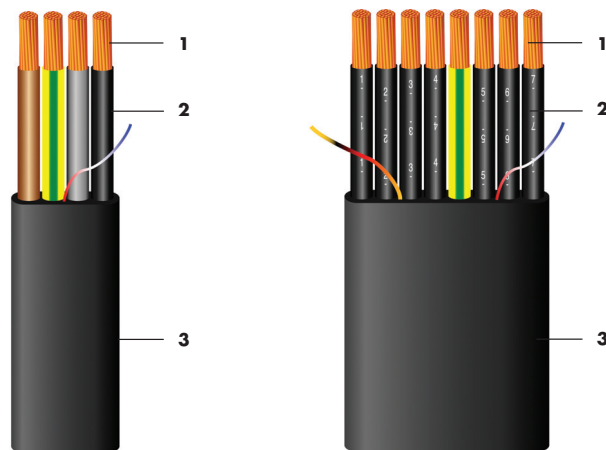
Flexible plain copper
class 5
IEC 60228

2. Insulation

PVC, threads are placed in each group of cores to strip the outer sheath.

3. Outer sheath

PVC
Colour: black



Marking

H07VVH6-F or 07VVH6-F
Number of cores - Cross-section
NEXANS year - week

Cores identification

in accordance with HD 308 S2
4 cores:
black - grey - green/yellow - brown
5 cores:
black - brown - green/yellow - blue - grey
> 5 cores:
black with white printed numbers
+ green/yellow

Standards

HD 359 S2
IEC 60227 part 6

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Cable characteristics

Mechanical properties

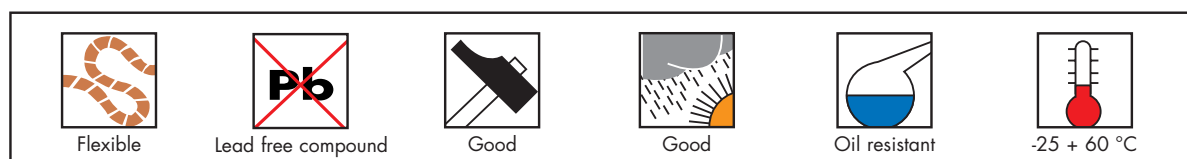
Tensile stress of the conductor	static	15 N/mm ²
	dynamic	30 N/mm ²
Bending radii	construction characteristics see page 3.1 E	
Tests	Bending test	
Travelling Festoon speed	up to 120 m/min	

Chemical properties

Oil, acid and alkaline resistant.
For indoor and outdoor applications. Moisture, UV and ozone resistance.
Flame-retardant according to IEC 60 332 part 1.

Electrical and Thermal properties

Nominal voltage	U ₀ /U	450/750 V
Maximum operating voltage in AC systems	U _m	750 V
Test voltage	2.5 kV - 50 Hz in AC	
Current rating (A)	see electrical characteristics page 3.2 B	
Max. temperature at the conductor :		
- in service	+ 70 °C	
- in short circuit	+ 150 °C	
Max. surface temperature :		
- fixed installation	- 35 °C up to + 60 °C	
- mobile operation	- 25 °C up to + 60 °C	



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	Number of cores and nominal cross-section (mm ²)	Outer dimensions approx. (mm)	Weight approx. (kg/km)
POWER	4 G 4*	21 x 6.5	300
	4 G 6*	23 x 7	390
	4 G 10*	29 x 9	620
	4 G 16*	37 x 11	990
	4 G 25*	46 x 13.5	1,550
	4 G 35*	51 x 14.8	2,030
	4 G 50*	56 x 16.5	2,650
	4 G 70*	63 x 18	3,650
	4 G 95*	73 x 20.5	4,550
	5 G 4*	25 x 6.5	380
	5 G 6*	28 x 7	480
	5 G 10*	35 x 9	780
	5 G 16*	43 x 11	1,200
	7 G 4*	37 x 6.5	550
	7 G 6*	41 x 7	700
CONTROL	4 G 1.5*	15 x 5	150
	4 G 2.5*	18.5 x 6	210
	5 G 1.5*	18 x 5	180
	5 G 2.5*	22 x 6	260
	7 G 1.5*	26 x 5	260
	7 G 2.5*	32 x 6	380
	8 G 1.5*	29 x 5	300
	8 G 2.5*	35 x 6	405
	10 G 1.5*	35 x 5	360
	12 G 1.5*	40.5 x 5	420
	12 G 2.5*	50.5 x 6	620
	12 G 4	57 x 6.5	880
	14 G 1.5*	48 x 5	490
	16 G 1.5*	54 x 5	560
	18 G 1.5*	58 x 5	620

*Stocked products

Options

- Cables without earth core (green/yellow) on request
- Remark: <HAR> CENELEC types are only up to 25 mm²