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TECHNICAL SPECIFICATION DOCUMENT

FLAT CABLE FV HO7VVH6-F SERIES

FLAT CABLE FV HO7VVH6-F 4G2.5

FLAT CABLE FV HO7VVH6-F 4G35

FLAT CABLE FV HO7VVH6-F 4G50

PRODUCT OVERVIEW

The HO7VVH6-F series represents a comprehensive range of flexible flat power and control cables specifically engineered for demanding industrial applications. These cables are particularly suited for festoon systems on handling equipment such as overhead cranes, control systems in lifts and elevators, and conveyor installations. The flat configuration optimizes space utilization while maintaining exceptional mechanical and electrical performance characteristics.

CABLE CONSTRUCTION

CONDUCTORS

- Electrolytic stranded plain annealed copper wire
- Class 5 flexibility according to IEC 60228
- High conductivity and corrosion resistance

INSULATION

- Flexible PVC Compound (TI2 type)
- Excellent dielectric properties
- Temperature resistant formulation

CORE IDENTIFICATION

- Up to 5 cores: Colored per DIN VDE 0293-308
- 6+ cores: White cores with white numbers
- Clear identification for easy installation

OUTER SHEATH

- Flexible PVC Compound (TM2 type)
- Black color for UV protection

- Oil and tear resistant properties

TECHNICAL SPECIFICATIONS

PARAMETER	HO7VVH6-F	HO5VVH6-F	STANDARD/NOTES
Rated Voltage	450/750V	300/500V	U_0/U (Phase to earth/Phase to phase)
AC Test Voltage	2500V	2000V	5 minutes duration
Operating Temperature - Fixed	-40°C to +60°C		Continuous operation
Operating Temperature - Mobile	-25°C to +60°C		Dynamic applications
Min. Bending Radius - Free Movement	5 × D		Cable outer diameter
Min. Bending Radius - Pulley Deflected	10 × D		Guided movement
Min. Bending Radius - Festoon	10 × D		Gantry crane applications
Max. Tensile Load on Conductor	15 N/mm²		Maximum allowable tension
Max. Suspended Height	35 meters		Vertical hanging applications
Travel Speed in Festoon Systems	up to 120 m/min		Maximum operational speed
Pull Out Speed	up to 1.6 m/s		Cable deployment speed

DIMENSIONAL AND WEIGHT DATA



CROSS SECTION (MM²)	OVERALL DIAMETER MIN. - MAX. (MM)	APPROXIMATE WEIGHT (KG/KM)	CROSS SECTION (MM²)	OVERALL DIAMETER MIN. - MAX. (MM)	APPROXIMATE WEIGHT (KG/KM)
4 × 0.75	4.6 × 11.6 / ±5%	110	4 × 10	9.2 × 28.0 / ±5%	643
8 × 0.75	4.6 × 23.1 / ±5%	214	5 × 10	9.2 × 37.6 / ±5%	850
12 × 0.75	4.6 × 35.1 / ±5%	318	4 × 16	10.2 × 31.2 / ±5%	888
18 × 0.75	4.6 × 50.1 / ±5%	452	5 × 16	10.2 × 48.6 / ±5%	1256
24 × 0.75	4.6 × 65.1 / ±5%	550	4 × 25	12.4 × 40.8 / ±5%	1384
4 × 1.0	4.9 × 12.4 / ±5%	120	4 × 35	13.4 × 45.3 / ±5%	1801
8 × 1.0	4.9 × 25.6 / ±5%	250	4 × 50	17.0 × 56.2 / ±5%	2683
12 × 1.0	4.9 × 36.1 / ±5%	370	4 × 70	18.7 × 64.5 / ±5%	3708
18 × 1.0	4.9 × 36.1 / ±5%	548	4 × 95	21.0 × 77.4 / ±5%	4805
24 × 1.0	4.9 × 71.2 / ±5%	731			
4 × 1.5	5.2 × 14.9 / ±5%	159	7 × 6	7.0 × 37.4 / ±5%	665
5 × 1.5	5.2 × 17.7 / ±5%	181	4 × 6	7.0 × 21.2 / ±5%	378
7 × 1.5	5.2 × 27.2 / ±5%	305	5 × 6	7.0 × 25.6 / ±5%	464
8 × 1.5	5.2 × 27.5 / ±5%	291	4 × 4	6.8 × 19.2 / ±5%	291
10 × 1.5	5.2 × 34.2 / ±5%	368	5 × 4	6.8 × 24.6 / ±5%	381
12 × 1.5	5.2 × 39.8 / ±5%	432	7 × 4	6.8 × 32.9 / ±5%	538

CROSS SECTION (MM²)	OVERALL DIAMETER MIN. - MAX. (MM)	APPROXIMATE WEIGHT (KG/KM)	CROSS SECTION (MM²)	OVERALL DIAMETER MIN. - MAX. (MM)	APPROXIMATE WEIGHT (KG/KM)
14 × 1.5	5.2 × 50.7 / ±5%	560	4 × 2.5	5.6 × 17.2 / ±5%	208
16 × 1.5	5.2 × 53.0 / ±5%	575	5 × 2.5	5.6 × 20.6 / ±5%	252
18 × 1.5	5.2 × 61.0 / ±5%	686	7 × 2.5	5.6 × 30.4 / ±5%	366
24 × 1.5	5.2 × 77.6 / ±5%	811	8 × 2.5	5.6 × 32.3 / ±5%	398
			12 × 2.5	5.6 × 47.4 / ±5%	589
			18 × 2.5	5.6 × 72.9 / ±5%	910
			24 × 2.5	5.6 × 96.6 / ±5%	1282

OPERATING CHARACTERISTICS

CONSTRUCTION FEATURES

- Low voltage (LV) PVC flat cable design
- REACH compliant materials
- Flame retardant properties

RESISTANCE PROPERTIES

- Oil resistant compound
- Tear resistant construction

- UV resistant outer sheath
- Ozone resistant materials

APPLICATIONS

✓ Festoon systems on handling equipment and overhead cranes

✓ Control cables in lifts, elevators and conveyor systems

✓ Mobile machinery and industrial equipment

✓ Gantry crane applications with hanging lengths up to 35m

✓ High-speed applications with pull-out speeds up to 1.6 m/s

TS/DIN EN 50214

European Standard

HD 359 S2

Harmonized Document

IEC 227-6

International Standard

VDE 0281-404

German Standard

IEC 60332-1

Flame Retardant

DIN VDE 0473

Test Methods

⚠ **Important Installation Guidelines:** Overlaying cables is not recommended during installation. The hanging length of the cable can reach up to 35 meters with pull-out speeds up to 1.6 m/s. Current carrying capacity should be calculated according to DIN VDE 0298-4. Installation should be performed by qualified personnel in accordance with local electrical codes and applicable safety regulations.

FEICHUN SPECIAL CABLES

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