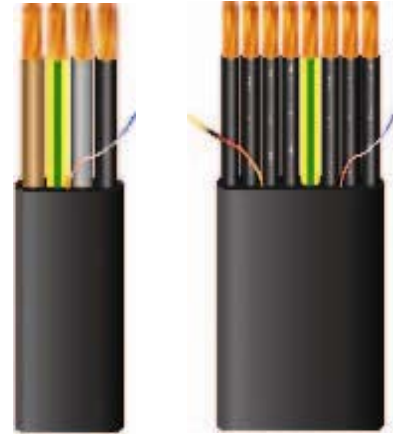


Applications

SIMBAL 'FLATFLEX' flat cables can be used on Festoon systems on cranes and handling equipment, typical applications include overhead cranes, monorails, transfer cars etc.

Design

1. **Conductor :-** Flexible plain copper, Class 5 - IEC 60228
2. **Insulation :-** PVC
3. **Outer Sheath :-** PVC, Colour - Black



Marking

H07VVH6-F or 07VVH-F, Number of cores, - cross section - year & week of manufacture.

Core Identification

In accordance with HD 308 S2

4 cores :- Black, Grey, Green / Yellow, Brown

5 cores :- Black, Grey, Green / Yellow, Brown, Blue

> 5 cores :- Black with white printed numbers (with or without green/yellow earth).

Standards

HD 359 S2, IEC 60227 part 6

Mechanical Properties

Tensile strength of the conductor	Static	15 N/mm ²
	Dynamic	30 N/mm ²
Bending Radii	8 x Cable diameter in dynamic applications	
Max travelling speed of festoon system	120 m/min	

Chemical Properties

Oil, Acid & Alkaline resistant
 For Indoor & Outdoor applications, Moisture, UV & Ozone resistant
 Flame retardant in accordance with IEC 60332 part 1
 Lead Free

Electrical & Thermal Properties

Nominal Voltage	U ₀ / U	450 / 750 V
Maximum Operating Voltage in AC systems	U _m	750 V
Test Voltage	2.5 k V - 50Hz in AC	
Current Rating	See facing page	
Max surface temperature		
- fixed installation	- 40 deg C up to + 70 deg C	
- mobile installation	- 25 deg C up to + 70 deg C	
Maximum temperature at the conductor		
- in operation	+ 70 deg C	
- in short circuit	+ 150 deg C	

Cable Specification

Number of cores & nominal cross section	Gland PG (Metric)	Current rating at 30 deg C	Outer dimensions Approx	Weight Approx	Stock Item
4c x 1.5mm ²	1616 (M20/16)	19 Amps	15 x 5mm	0.150 kg/m	Yes
4c x 2.5mm ²	2121 (M25/21)	25 Amps	18.5 x 6mm	0.210 kg/m	Yes
4c x 4mm ²	2930 (M32/29)	34 Amps	21 x 6.5mm	0.300 kg/m	Yes
4c x 6mm ²	2930 (M32/29)	43 Amps	23 x 7mm	0.390 kg/m	Yes
4c x 10mm ²	2930 (M32/29)	60 Amps	29 x 9mm	0.620 kg/m	Yes
4c x 16mm ²	3640 (M40/36)	80 Amps	37 x 11mm	0.990 kg/m	Yes
4c x 25mm ²	8107 Plate Gland	101 Amps	46 x 13.5mm	1.550 kg/m	Yes
4c x 35mm ²	8107 Plate Gland	126 Amps	51 x 15mm	2.030 kg/m	Yes
4c x 50mm ²	8108 Plate Gland	153 Amps	56 x 16.5mm	2.650 kg/m	Yes
4c x 70mm ²	8108Plate Gland	196 Amps	63 x 18mm	3.650 kg/m	
4c x 95mm ²	8108 Plate Gland	238 Amps	73 x 20.5mm	4.550 kg/m	
5c x 1.5mm ²	2121 (M25/21)	19 Amps	18 x 5mm	0.180 kg/m	
5c x 2.5mm ²	2930 (M32/29)	25 Amps	22 x 6mm	0.260 kg/m	
5c x 4mm ²	2930 (M32/29)	34 Amps	25 x 6.5mm	0.380 kg/m	
5c x 6mm ²	2930 (M32/29)	43 Amps	28 x 7mm	0.480 kg/m	
5c x 10mm ²	3640 (M40/36)	60 Amps	35 x 9mm	0.780 kg/m	
5c x 16mm ²	4245 (M50/42)	80 Amps	43 x 11mm	1.200 kg/m	
7c x 1.5mm ²	2930 (M32/29)	19 Amps	26 x 5mm	0.260 kg/m	
7c x 2.5mm ²	3640 (M40/36)	25 Amps	32 x 6mm	0.380 kg/m	
7c x 4mm ²	3642 (M40/36)	34 Amps	37 x 6.5mm	0.550 kg/m	Yes
7c x 6mm ²	4245 (M50/42)	43 Amps	41 x 7mm	0.700 kg/m	
8c x 1.5mm ²	2930 (M32/29)	19 Amps	29 x 5mm	0.300 kg/m	Yes
8c x 2.5mm ²	3640 (M40/36)	25 Amps	35 x 6mm	0.405 kg/m	Yes
10c x 1.5mm ²	3640 (M40/36)	19 Amps	35 x 5mm	0.360 kg/m	
12c x 1.5mm ²	3640 (M40/36)	19 Amps	40.5 x 5mm	0.420 kg/m	Yes
12c x 2.5mm ²	4250 (M63/48)	25 Amps	50.5 x 6mm	0.620 kg/m	Yes
14c x 1.5mm ²	4250 (M63/48)	19 Amps	48 x 5mm	0.490 kg/m	
16c x 1.5mm ²	4250	19 Amps	54 x 5mm	0.560 kg/m	Yes
18c x 1.5mm ²	4250	19 Amps	58 x 5mm	0.620 kg/m	