

# FLATFLEX-C-300/500 (KCYFLY)

## FLATFLEX-C-600/1000 (VCVH6-F)

Screened PVC Flat cable with individually screened cores



**Application**  
 PVC Flat cables are suitable for use as power, control, measurement and telecommunication cables for many different types of travelling machinery including :- Hoists, Cranes, Trolley systems, Transfer lines, Container bridges, Machine tools, Elevators etc. They are also suitable for other applications where cables are required to be bent to a tight radius in one direction.

### Construction

Conductor :	Fine stranded plain copper according to VDE 0295 Class 5
Insulation:	PVC, mixed compound
Core colour :	According to VDE 0293 - up to 5 wires coloured, 6 wires and above black with white numbers with green/yellow earth (also available without g/y on request)
Core Arrangement :	Cores arranged side by side in a single layer
Shield :	Plain or tinned copper braid, coverage 80 - 90%
Sheath :	PVC, mixed compound
Sheath colour :	Black
Imprint :	KYCFLY (300/500 V) or VCVH6-F (600/1000 V)

### Working Environment

Maximum operating temperature in mobile application :	-25 deg C - + 70 deg C
Maximum temperature at conductor :	+70 deg C
Environment :	suitable for use in dry & humid areas

### Electrical properties (FLATFLEX-C-300/500)

Nominal voltage :	300/500 V
Test Voltage :	2000 V
Conductor resistance :	In accordance with VDE0295 class 5

### Electrical properties (FLATFLEX-C-600/1000)

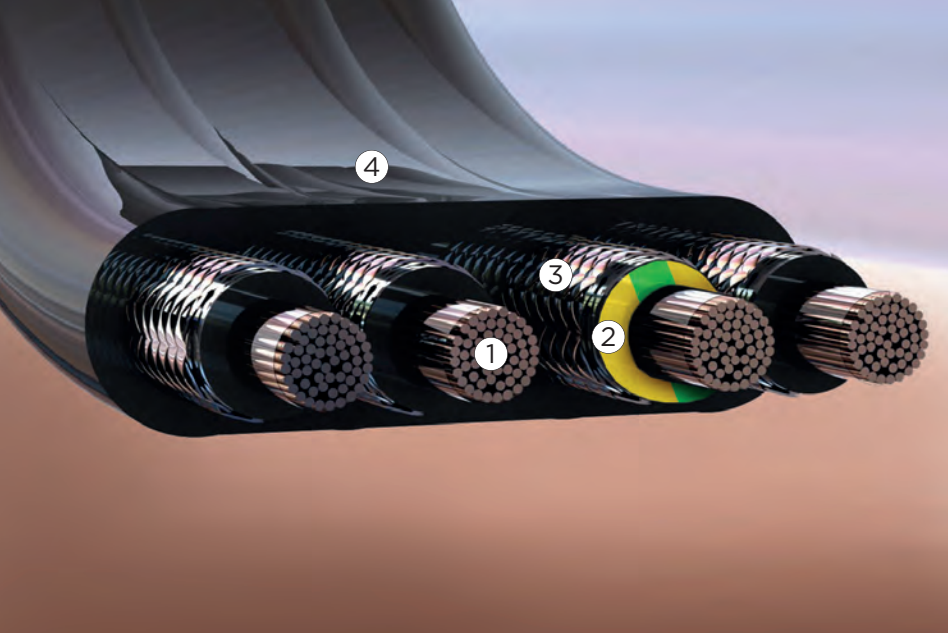
Nominal voltage :	600/1000 V
Test Voltage :	2500 V
Conductor resistance :	In accordance with VDE0295 class 5

### Additional information

Minimum bending radius :	Mobile application - 10 x cable thickness
Max travel speed :	1.6 m/s (according to VDE)
Maximum suspended height:	35 meters
Oil resistance :	According to VDE 0472
Flame resistance :	According to VDE 0482 pt IEC 332-1-2 resp. IEC 60332-1-2

### Applied Standards

	Manufacturers standard similar to DIN VDE 0250



- ① Copper conductor
- ② PVC Insulation
- ③ Copper screen
- ④ PVC outer sheath

## FLATFLEX-C-300/500 (KCYFLY)

Screened PVC Flat cable with individually screened cores (300/500V)

Part No	Cross Section mm <sup>2</sup>	Current Rating @ 30 Deg	CU Number kg/km	Outer Dimensions approx. (mm)	Weight kg/km	Plated Brass Gland Size
08013 0150 04-300	4 G 1.5	19A	114.0	19.6 x 6.3	210	12.2121
08013 0250 04-300	4 G 2.5	27A	168.0	22.0 x 7.4	270	12.2930
08013 0400 04-300	4 G 4	36A	208.0	25.4 x 8.1	400	12.2930
08013 0600 04-300	4 G 6	46A	325.0	31.2 x 9.7	520	12.3640
08013 1000 04-300	4 G 10	64A	480.0	37.3 x 11.6	840	12.3640
08013 1600 04-300	4 G 16	86A	700.0	46.0 x 14.0	1280	8107
08013 2500 04-300	4 G 25	114A	1040.0	50.0 x 15.0	1800	8107
08013 0150 08-300	8 G 1.5	14A	210.0	37.0 x 6.3	400	12.3640
08013 0150 12-300	12 x 1.5	11A	335.0	50.0 x 6.0	610	12.4250

## FLATFLEX-C-600/1000 (VCVH6-F)

Screened PVC Flat cable with individually screened cores (600/1000V)

Part No	Cross Section mm <sup>2</sup>	Current Rating @ 30 Deg	CU Number kg/km	Outer dimensions approx. (mm)	Weight kg/km	Plated Brass Gland Size
08013 0400 04-600	4 G 4	36A	208.0	23.0 x 7.0	360	12.2930
08013 0600 04-600	4 G 6	46A	325.0	29.0 x 9.0	580	12.2930
08013 1000 04-600	4 G 10	64A	480.0	37.0 x 11.0	900	12.3640
08013 1600 04-600	4 G 16	86A	700.0	46.0 x 14.0	1280	8107
08013 2500 04-600	4 G 25	114A	1040.0	50.0 x 14.5	1800	8107
08013 3500 04-600	4 G 35	142A	1600.0	55.0 x 16.0	2300	8107

Other sizes are available on request

### Note !

FLATFLEX-C-600/1000 is not a stocked cable type and is only available by special order, some sizes may be subject to MOQ's and significant lead times