



## FLEXIFESTOON® PV-FLAT CY (VCVH6-F)



### Construction:

<b>Conductor:</b>	bare copper, stranded to DIN VDE 0295 and IEC 60228, class 5
<b>Insulation:</b>	special PVC compound
<b>Stranding:</b>	cores laying parallel
<b>Cores:</b>	cores screened individually or in bunches
<b>Screen:</b>	plain copper screened braiding, 85% covering
<b>Cores color:</b>	up to 5 cores to color code DIN VDE 0293 7 cores and above with number printing, + green-yellow
<b>Outer sheath:</b>	black, special PVC

### Technical data:

<b>Temperature range:</b>	
fixed installation:	-40°C to +80°C
flexible installation:	-25°C to +70°C
<b>Nominal voltage:</b>	
up to 1,5 mm <sup>2</sup> :	U/oU 300/500 V
from 2,5 mm <sup>2</sup> :	U/oU 0,6/1 kV
<b>Test voltage:</b>	
up to 1,5 mm <sup>2</sup> :	2 kV
from 2,5 mm <sup>2</sup> :	2,5 kV
<b>Min. Bending radius:</b>	10 x d
<b>Max. temperature on conductor:</b>	
in service:	+70°C
in short circuit:	+150°C
<b>Radiation resistant:</b>	up to 80x10 <sup>6</sup> cJ/kg (up to 80 Mrad)
<b>Chemical resistant:</b>	oil, acid and alkaline resistance
<b>Travelling festoon speed:</b>	up to 120 m/min
<b>Conductor tensile stress:</b>	
static:	15 n/mm <sup>2</sup>
dynamic:	30 n/mm <sup>2</sup>
<b>Fire performance:</b>	test method B acc. to DIN VDE 0472 part 804 and IEC 60332-1



### Outstanding features:

- **Extremely small bending radius**
- **high flexibility**
- **minimum waste of space**
- **pocketing possibility**
- **for SPEEDS and MINIMUM BENDING RADIUS see page 1,2,3/5,6 of catalogue**
- **flame retardant acc. to IEC 60332-1**
- **UV and ozone resistance**
- **possible tinned copper screen**

Part no.	No. of cores x cross-section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
05100505	5G0,5	3,4x21,0	64	92	20
05100545	5x4x0,5	7,2x37,4	175	280	20
05100875	8x7x0,5	11,7x68,6	480	650	20
05100441	4x4x1	11,0x33,5	310	350	18
05100415	4G1,5	5,5x18,0	114	220	16
05100715	7G1,5	6,9x21,0	156	300	16
05100815	8G1,5	5,5x34,0	179	430	16
05101215	12G1,5	5,5x50,0	267	584	16
05100425	4G2,5	6,9x21,0	133	278	14

Part no.	No. of cores x cross-section n x mm <sup>2</sup>	Outer-Ø ca. mm ± 10%	Copper weight kg/km	Cable weight approx. kg/km	AWG no. *)
05100525	5G2,5	10,5x35,9	189,3	396	14
05100625	6G2,5	7,8x37,4	205,3	430	14
05100725	7G2,5	14,4x48,2	229,0	475	14
05101225	12G2,5	6,0x47,6	385,0	550	14
05100440	4G4	7,0x23,0	222,0	360	12
05100460	4G6	9,0x29,0	313,0	580	10
05100461	4G10	11,0x37,0	522,0	900	8
05100462	4G16	14,0x46,0	784,0	1280	6
05100463	4G25	14,5x50,0	1163,0	1800	4
05100464	4G35	16,0x55,0	1549,0	2300	2

Other construction and sizes are available on request