

Flexible cables for gravity-fed collector in basket in line with **DIN VDE 0250 PART. 814**

MAIN APPLICATION

For vertical operation with high mechanical stress, suitable to be collected in gravity-fed collector basket.

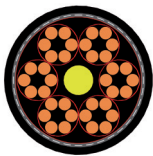


CONSTRUCTION

Conductor:	Tinned copper conductor, flexible cl.5 IEC 60228 Specially designed for mobile application
Insulation:	EPR compound better than 3GI3 Specially developed compound with improved mechanical characteristics
Cores identification:	Black with printed numbers+1 green/yellow Each cores consecutively numbered
Bundle:	Six cores layed-up with suitable tape(s)
Central strainer:	Made of aramidic yarns To be used as support element with a minimum tensile strength of 10 kN
Laying-up:	Short lay length for better flexibility ≤ 8 times the laying-up bundle diameter
Separation (if any):	Tape(s)
Inner sheath:	Polychloroprene rubber based compound Better than GM1b
Antitwisting protection:	Synthetic yarns Firmly bonded between inner and outer sheath
Outer sheath:	Special CSP compound High density specially developed compound UV resistant, lubricants resistant
Marking:	U.T.V. CAVI manufactured BY PALAZZO - BASKETHEAVYFLEX 300/500 V <i>n. of bundles x cross section</i>

PARAMETERS

ELECTRICAL	Rated voltage	U ₀ /U= 300/500 V
	Maximum permissible operating voltage in AC systems	U _m = 550 V
	AC test voltage over 5 minutes	2,0 kV
THERMAL	Fully flexible operation	- 25 °C
	Fixed installation	- 40 °C
	Maximum permissible operating temperature of the conductor	90 °C
	Short-circuit temperature of the conductor	250 °C
MECHANICAL	Tensile load	Up to 15 N/mm ² with minimum 4000 N
	Travel speed	Up to 160 m/min
CHEMICAL	Resistance to oil	According to VDE / IEC standard
	Weather resistance	Unrestricted use outdoor and indoor, UV resistant, moisture resistant.



BASKETHEAVYFLEX 300/500 V 3GRDGÖU

for gravity-fed
collector basket
operation

TABLE 1 - BASKETHEAVYFLEX 300/500 V - 3GRDGÖU

BASKET APPLICATION

N. OF CORES X CROSS SECTION N X SECT.	(N X N SECT.)	CONDUCTORS NOM. DIAM. MM	CORE NOM. DIAM. MM	U°/U(Um) 300/500 (550) V		NET WEIGHT APPROX. KG/KM	MAX D.C. RESISTANCE AT 20 °C OHM/KM	MAXIMUM PERMISSIBLE TENSILE FORCE N	BENDING* RADIUS MIN. MM	SHORT CIRCUIT CURRENT 80 °C TO 200 °C KA
				OVERALL DIAMETER MIN. VALUE MM	OVERALL DIAMETER MAX. VALUE MM					
36x2,5	(6x6x 2,5)	2,0	3,6	39,1	43,1	2.790	8,21	4000	650	0,32
42x2,5	(7x6x 2,5)	2,0	3,6	43,0	47,0	3.260	8,21	4000	710	0,32
48x2,5	(8x6x 2,5)	2,0	3,6	46,4	50,4	3.690	8,21	4000	760	0,32
54x2,5	(9x6x 2,5)	2,0	3,6	50,1	54,1	4.280	8,21	4000	820	0,32
36x3,3	(6x6x 3,3)	2,6	4,1	42,7	46,7	3.380	6,11	4000	710	0,42
42x3,3	(7x6x 3,3)	2,6	4,1	47,1	51,1	3.980	6,11	4000	770	0,42
48x3,3	(8x6x 3,3)	2,6	4,1	51,2	55,2	4.560	6,11	4000	830	0,42
54x3,3	(9x6x 3,3)	2,6	4,1	55,5	59,5	5.310	6,11	4000	900	0,42

Cables with intergrated optical bers or shielded available upon request.

Cables must be laid into the basket in a counter-clockwise direction.

Maximum spees: up to 160 m/min.

* See note on technical information about suggested cable coiling.