

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

Cable type

BASKETHEAVYFLEX 300/500 V
3GRDGÖU for gravity-fed collector basket operation

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 3G3 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)
Outer sheath:	Special CSP compound High density specially developed compound UV resistant, lubricants resistant
Marking:	PALAZZO - BASKETHEAVYFLEX 300/500 V n. of bundles x cross section

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	Maximum 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.
	Lead free	



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Table 1: BASKETHEAVYFLEX 300/500 V 3GRDGÖU

N. of cores x cross section n x sect.	(n x n sect.)	Conductors nom. diam. mm	Cores nom. diam. mm	Overall diameter		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
				min. value mm	max. value mm					
36x2,5	(6x6x 2,5)	2,0	3,6	39,1	43,1	2.790	8,21	4.000	650	0,32
42x2,5	(7x6x 2,5)	2,0	3,6	43,0	47,0	3.260	8,21	4.000	710	0,32
48x2,5	(8x6x 2,5)	2,0	3,6	46,4	50,4	3.690	8,21	4.000	760	0,32
54x2,5	(9x6x 2,5)	2,0	3,6	50,1	54,1	4.280	8,21	4.000	820	0,32
36x3,3	(6x6x 3,3)	2,6	4,1	42,7	46,7	3.380	6,11	4.000	710	0,42
42x3,3	(7x6x 3,3)	2,6	4,1	47,1	51,1	3.980	6,11	4.000	770	0,42
48x3,3	(8x6x 3,3)	2,6	4,1	51,2	55,2	4.560	6,11	4.000	830	0,42
54x3,3	(9x6x 3,3)	2,6	4,1	55,5	59,5	5.310	6,11	4.000	900	0,42

Cables with integrated optical fibers or shielded elements available upon request.

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

Maximum speeds: up to 160 m/min.

* See note on technical information about suggested cable coiling.