

Unrestricted use outdoor and indoor, UV resistant, moisture resistant.

Flexible power and control flat cables in line with CEI 20-19 part. 4

Cable type

FLEXIFLAT 450/750 V

(N)GFLGÖU- J/ (N)GFLGÖU- JZ flat rubber cables for festoon system

Main application

Flexible power and control cables for use on connecting movable parts of machine tools and any material handling equipment. Suitable for power and signaling supply on festoon systems with fast movement with strong acceleration.

Construction

Fibre optics:	Plain or tinned copper conductor, flexible to IEC 60228 cl. 6 up to 6 mm ² , cl. 5 from 10 mm ²			
	Specially designed for mobile application			
Insulation:	EPR compound better than 3Gl3			
	Specially developed compound with improved electrical and mechanical characteristics			
Cores identification:	Colours according to HD 308 S2			
	Standard colours:			
	- 4 cores: green/yellow, brown, black, grey			
	- ≥ 6 cores: black with printed numbers + green/yellow			
	Green/yellow approximately in the middle			
Core arrangement:	Parallel, starting from 12 cores in parallel bundle			
	Green/yellow approximately in the middle of the cable			
Separation (if any):	Tape(s)			
Outer sheath:	Black polychloroprene rubber compound			
	UV resistant, oil and chemical resistant better than 5GM2			
Marking:	PALAZZO - FLEXIFLAT 450/750 V n. of cores x cross section			

Parameters

Electrical	Rated voltage	$U_0/U = 450/750 \text{ V}$	
	Maximum permissible operating voltage in AC systems	Um = 900 V	
	AC test voltage over 5 minutes	2,5 kV	
	Current Carrying Capacity	According to DIN VDE 0298 part 4	
	Bus compatibility	Cable with twisted and individually	
		shielded pairs can be used	
		for bus systems	
Thermal	Fully flexible operation	- 25 °C	
	Fixed installation	- 40 °C	
	Maximum permissible operating temperature of the conductor	the conductor 90 °C	
	Short-circuit temperature of the conductor	250 °C	



Weather resistance





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Table 1: FLEXIFLAT 450/750 V (N)GFLGÖU-J (N)GFLGÖU-JZ

N. of cores and nominal cross section (n·mm²)	Max. D. C. electr. res. at 20 °C (Ohm/km)	Nominal conductor diameter (mm²)	Nominal overall dimensions WixTh (mm)	Weight for 1000 m (kg/km)	Max. permissible tensile load (N)
3x4x1,5	13,7	1,5	15 x 35	810	270
4x4x1,5	13,7	1,5	15 x 45	1.055	360
3x4x2,5 4x4x2,5	8,21 8,21	2,0 2,0	17 x 41 17 x 53	1.125 1.465	450 600
4x10	1,95	4,2	11 x 35	870	600
4x16	1,24	5,4	13 x 41	1.250	960
4x25	0,795	6,7	14,9 x 48	1.785	1.500
4x35	0,565	8,2	16,8 x 52	2.330	2.100
4x50	0,393	9,6	19,5 x 61	3.200	3.000
4x70	0,277	11,6	22 x 70	4.280	4.200
4x95	0,210	13,2	24 x 79	5.550	5.700

With integrated fibre-optics on request.