

BiTcrane® (N)GFLGOEU-J

Flexible, low voltage flat rubber cables based on DIN VDE 0250-809



Crane cables



Technical data:

Thermal parameters:

Ambient temperature:

fixed installation: -40 °C to 80 °C

festoon operation: -30 °C to 80 °C

Max. permissible conductor temp.: 90 °C

Max. short-circuit temp. at conductor: 250 °C

Mechanical parameters:

Max. tensile load on conductor: 15 N/mm²

Trolley travel speed: up to 180 m/min

Design:

Conductors:

plain copper acc. to DIN EN/IEC 60228:

- ≤ 25 mm², class 6 – finest stranded wires

- ≥ 35 mm², class 5 – fine stranded wires

EPR compound type 3GI3 acc. to DIN VDE 0207-20,

core identification acc. to DIN VDE 0293-308

heavy duty rubber compound type 5GM3

acc. to DIN VDE 0207-21; colour: black, inkjet marking

Insulation:

Outer sheath:

Application:

These cables are designed for connection of moving parts of machine tools, conveyors and large equipment, when the cables are subjected to bending in only one plane e.g. festoon systems. Suitable for use in dry, damp and wet rooms as well as outdoors. In case of high mechanical stresses, e.g. in high dynamic tensile forces, permissible loads are to be determined on a case-by-case basis. On the basis of the insulation compound used **BiTcrane® (N)GFLGOEU-J** can be used with a rated voltage of 1000 V and applied as directed in DIN VDE 0298-3.

Chemical parameters:

Resistance to oil:

DIN EN/IEC 60811-404

Behaviour in case of fire:

DIN EN/IEC 60332-1-2

Weather resistance:

unrestricted use indoors, outdoors, resistance to ozone, UV and moisture

Electrical parameters:

Rated voltage U_0/U [kV]	0.6/1 kV
Max. permissible operating voltage $U_{0,max}$ in AC systems [kV]:	0.7/1.2 kV
Max. permissible operating voltage $U_{0,max}$ in DC systems [kV]:	0.9/1.8 kV
AC test voltage:	3.5 kV/5 min
Current-carrying capacities in amperes:	acc. to DIN VDE 0298-4

Bending radius	Height of cable (mm)	
	up to 12	over 12
Fixed installation	3xH	4xH
Flexible applications (incl. festoon)	4xH	5xH

Cable Factory BITNER reserves the right to modify the specifications without prior notice

Note: on customer's request other cross sections or number of cores can be produced

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Cat. no.	n x mm ²	Outer diameter* [mm]	Approximate cable weight [kg/km]
IP5200	4x1,5	6 x 17	177
IP5201	5x1,5	6 x 21	223
IP5202	7x1,5	6 x 27	297
IP5203	8x1,5	6 x 32	343
IP5204	10x1,5	6 x 40	466
IP5205	12x1,5	6 x 47	555
IP5206	4x2,5	7 x 20	273
IP5207	5x2,5	7 x 25	341
IP5208	6x2,5	7 x 29	399
IP5209	7x2,5	7 x 33	457
IP5210	8x2,5	7 x 38	525
IP5211	12x2,5	8 x 57	834
IP5212	4x4	8 x 24	421
IP5213	5x4	8 x 30	524
IP5214	7x4	8 x 40	706
IP5215	4x6	9 x 28	520
IP5216	5x6	9 x 33	631
IP5217	7x6	9 x 44	855
IP5218	4x10	10 x 32	751
IP5219	5x10	10 x 40	948
IP5220	4x16	12 x 37	1059
IP5221	5x16	12 x 44	1295
IP5222	4x25	13 x 44	1587
IP5223	4x35	15 x 49	2009
IP5224	3x50	18 x 45	2124
IP5225	4x50	18 x 57	2768
IP5226	4x70	20 x 65	3813
IP5227	4x95	23 x 74	4968
IP5228	4x120	25 x 80	5987
IP5229	4x150	28 x 90	7467

* thickness $\pm 1,5$ mm; width $\pm 2,5$ mm

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