

# BiTcrane<sup>®</sup> M(StD)HOEU



Screened, flexible, flat rubber cables for festoon systems, based on DIN VDE 0250-809



## 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/mm<sup>2</sup>

**Trolley travel speed:** up to 180 m/min

## Design:

### Conductors:

plain copper acc. to DIN EN/IEC 60228:  
- ≤ 25 mm<sup>2</sup>, class 6 – finest stranded wires

- ≥ 35 mm<sup>2</sup>, class 5 – fine stranded wires  
EPR compound type 3GI3 acc. to DIN VDE 0207-20,  
core identification acc. to DIN VDE 0293-308

### Insulation:

### Core arrangement:

### Individual screen:

### Outer sheath:

cores/pairs arranged in parallel; pairs twisted with fillers  
aluminium backed polyester foil and spinning of tinned  
copper wires, coverage >85%

heavy duty rubber compound type 5GM3  
acc. to DIN VDE 0207-21; colour: black, inkjet marking

## Application:

Flexible, flat rubber cables designed for festoon applications, especially for hoisting gears transportation systems as well as for machine tools at medium mechanical stresses and for strong bends in one plane. Cables are suitable for both indoor and outdoor applications where resistance to oils, fats and chemicals is required.

## 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 $U_n/U$ [kV]	0.6/1 kV
Max. permissible operating voltage $U_{o,max}$ in AC systems [kV]:	0.7/1.2 kV
Max. permissible operating voltage $U_{o,max}$ 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
Fixed installation	3xH	4xH
Flexible applications (incl. festoon)	4xH	5xH

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Cat. no.	n x mm <sup>2</sup>	Nominal outer dimensions* [mm]	Approximate cable weight [kg/km]
IP5330	4x2x1	11 x 33	640
IP5331	7x2x1	12 x 56	1114
IP5332	12x2x1	12 x 88	1788
IP5333	4x4x1,5	15 x 41	1100
IP5334	5x1,5	8 x 25	368
IP5335	8x1,5	8 x 38	562
IP5336	12x1,5	8 x 56	829
IP5337	6x2,5	8 x 33	615
IP5338	12x2,5	8 x 63	1199
IP5339	4x1,5	8 x 20	295
IP5340	4x2,5	8 x 24	431
IP5341	4x4	9 x 26	505
IP5342	4x6	10 x 29	608
IP5343	4x10	12 x 35	910
IP5344	4x16	13 x 40	1225
IP5345	4x25	15 x 46	1763
IP5346	4x35	16 x 53	2210
IP5347	4x50	19 x 61	3054
IP5348	4x70	22 x 74	4429
IP5349	4x95	24 x 79	5367

\*outer dimension tolerance: ±5%

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