

BiTcrane[®] M(StD)HOEU



Crane cables

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/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

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_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 |

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| Cat. no. | n x mm ² | 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