

Bitcrane® (N)12YRDC11Y-J/O



Crane cables

Halogen-free power and control cable for very high mechanical requirements, screened, rated 0,6/1 kV



Technical data:

Thermal parameters:

Ambient temperature:
 fixed installation: -50 °C to 90 °C
 flexible operation: -40 °C to 90 °C
Max. permissible conductor temp.: 90 °C
Max. short-circuit temp. at conductor: 250 °C

Mechanical parameters:

Max. tensile load per conductor: 15 N/mm²
Bending radius:
 - fixed installation: ≥ 6 x outer - Ø
 - free moving: ≥ 7,5 x outer - Ø

Design:

Conductor: bare copper wires, finely stranded, class 5 acc. to DIN EN/IEC 60228
Insulation: based on polyester, core identification: acc. to DIN 0293-308 up to 5 wires colored, from 6 wires white, numbered (with or without green/yellow protective conductor)
Core arrangement: cores stranded in layers around central element (central supporting element - aramid yarns)
Inner sheath: halogen-free PUR compound; colour; black (only cables with 2 up to 5 cores are manufactured with inner sheath) tinned copper wire braid, coverage ca. 85%
Screen: halogen-free PUR compound; colour: black, matt, inkjet marking
Outer sheath:

Application:

Halogen-free power and control cable for very high mechanical requirements, frequent bendings, especially for use in festoon, trolley systems, drag chains on moving parts of machines and conveyor facilities. Suitable for dry and wet rooms as well as for outdoor use. Cable suitable for permanent use in water (AD8) up to 50m depth (not permitted for use in drinking water).

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:	2,5 kV
Current-carrying capacities in amperes:	acc. to DIN VDE 0298-4

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight* [kg/km]
BC00170	1x25	11,5-13,0	330
BC00171	1x35	12,8-14,3	420
BC00172	1x50	14,9-16,4	590
BC00173	1x70	16,7-18,2	795
BC00174	1x95	18,9-20,4	1050
BC00175	1x120	20,4-22,4	1295
BC00176	1x150	23,1-25,1	1610
BC00177	1x185	25,8-27,8	1920

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Halogen-free power and control cable for very high mechanical requirements, screened, rated 0,6/1 kV

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight* [kg/km]
BC00178	4x2,5	13,0-14,5	250
BC00179	4x4	14,8-16,3	350
BC00180	4x6	16,6-18,1	450
BC00181	4x10	19,3-20,8	680
BC00182	4x16	22,4-24,4	985
BC00183	4x25	26,9-28,9	1460
BC00184	4x35	30,4-32,4	1940
BC00185	4x50	35,2-37,2	2665
BC00192	5x1,5	12,4-13,9	220
BC00186	5x2,5	13,9-15,4	295
BC00187	7x1,5	11,5-13,0	205
BC00188	12x1,5	15,5-17,0	380
BC00189	12x2,5	18,6-20,1	580
BC00190	18x1,5	16,1-17,6	440
BC00191	18x2,5	19,2-20,7	670

Cable Factory BITNER reserves the right to modify specifications without prior notification.
*Cable weight may differ from the one shown in the table.