

BiTcrane® (N)12YRD11Y-J/O

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



Crane cables



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)
Outer sheath: halogen-free PUR compound; colour: black, matt, inkjet marking

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 _{b,max} in AC systems [kV]:	0,7/1,2 kV
Max. permissible operating voltage U _{b,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]
BC00135	1x25	10,7-12,2	290
BC00136	1x35	12,0-13,5	380
BC00137	1x50	13,8-15,3	530
BC00138	1x70	15,8-17,3	725
BC00139	1x95	17,9-19,4	965
BC00140	1x120	19,4-20,9	1200
BC00141	1x150	21,9-23,4	1475
BC00142	1x185	24,7-26,2	1770

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Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight* [kg/km]
BC00143	4x1,5	8,6-10,1	110
BC00144	4x2,5	10,0-11,5	155
BC00145	4x4	11,7-13,2	235
BC00146	4x6	13,2-14,7	320
BC00147	4x10	15,6-17,1	495
BC00148	4x16	18,2-19,7	730
BC00149	4x25	22,3-24,3	1130
BC00150	4x35	24,9-26,9	1540
BC00151	4x50	29,8-31,8	2185
BC00152	5x2,5	10,8-12,3	190
BC00153	5x4	12,7-14,2	285
BC00154	5x6	14,5-16,0	395
BC00155	5x10	17,1-18,6	615
BC00156	5x16	19,9-21,4	910
BC00157	7x2,5	12,6-14,1	255
BC00158	12x1,5	14,8-16,3	330
BC00159	12x2,5	17,7-19,2	490
BC00160	18x1,5	15,1-16,6	380
BC00161	18x2,5	18,1-19,6	580
BC00162	24x1,5	18,0-19,5	525
BC00163	24x2,5	21,6-23,6	790

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