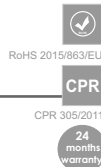


BiTmining®(N)3GHSSHCH

Rubber insulated and halogen-free sheathed feeder cable



Mining cables



Technical data:

Thermal parameters:

Permissible temperature on cable surface:

fixed installation: -40 °C to 80 °C

flexible operation: -5 °C to 80 °C

Max. conductor temperature: 90 °C

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

Mechanical parameters:

Max. tensile load per conductor: 15 N/mm²

Bending radius: 6 x D for fixed installation

10 x D for flexible operation

Minimum distance with S-type directional changes: 20 x D

Design:

Main cores:

Conductors:

plain copper wires, finely stranded, class 5
acc. to IEC 60228

Insulation:

- inner semi-conductive stress control layer
- EPR compound, lead free with improved electrical and mechanical characteristics based on DIN VDE 0207-20
- outer semi-conductive insulation shield layer
cross-section symmetrically split and distributed over insulation of three power cores, plain copper wires
acc. to DIN VDE 0250-1

Protective conductor:

Pilot cores

Conductor:

plain copper wires, finely stranded, class 5
acc. to IEC 60228

Insulation:

special EPR compound, lead free, with improved electrical and mechanical characteristics based on DIN VDE 0207-20
three screened main cores laid-up with the control cores in the interstices

Stranding:

Bedding:

Inner sheath 1:

filling the interstices
special halogen-free compound HM4
acc. to DIN VDE 0207-24

ÜL:

concentric monitoring conductor: plain copper wires,
DC resistance $\leq 3.30 \Omega/\text{km}$ at 20 °C
special halogen-free compound HM4
acc. to DIN VDE 0207-24

Inner sheath 2:

Armour:

Outer sheath:

galvanized steel wire braid, covering min. 75%
special halogen-free compound HM4
acc. to DIN VDE 0207-24, colour: red

Application:

In all mining workings e.g. tunneling, stationary and non-stationary, on gratings, planks and trays but not in mining operations and local operations.

Chemical parameters:

Behaviour in case of fire:

DIN EN / IEC 60332-1-2

Weather resistance:

unrestricted use indoors and mines

Electrical parameters:

Rated voltage U_0/U [kV]	6/10	8.7/15	12/20
Max. permissible operating voltage $U_{b,max}$ in AC systems [kV]:	6.9/12	10.4/18	13.9/24
Max. permissible operating voltage $U_{b,max}$ in DC systems [kV]:	9/18	13.5/27	18/36
Tests: - General requirements:	DIN VDE 0250-1 / DIN VDE 0250-813 / DIN VDE 0250-605		
Tests: - Electrical tests:	DIN VDE 0250-605 / DIN VDE 0250-813		
Current-carrying capacities [A] and De-rating factors:	DIN VDE 0298-4		

BiTmining®(N)3GHSSHCH

Rubber insulated and halogen-free sheathed feeder cable

BiTmining®(N)3GHSSHCH 6/10 kV

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1300	3x25 + 3x16/3E + 3x2.5ST + ÜL	51-55	4020
BM1301	3x35 + 3x16/3E + 3x2.5ST + ÜL	53-57	4460
BM1302	3x50 + 3x25/3E + 3x2.5ST + ÜL	58-62	5450
BM1303	3x70 + 3x35/3E + 3x2.5ST + ÜL	61-65	6550
BM1304	3x95 + 3x50/3E + 3x2.5ST + ÜL	66-70	7850
BM1307	3x120 + 3x70/3E + 3x2.5ST + ÜL	69-73	9100
BM1305	3x150 + 3x70/3E + 3x2.5ST + ÜL	75-79	10630

BiTmining®(N)3GHSSHCH 8.7/15 kV

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1364	3x25 + 3x16/3E + 3x2.5ST + ÜL	51-55	4020
BM1365	3x35 + 3x16/3E + 3x2.5ST + ÜL	53-57	4460
BM1366	3x50 + 3x25/3E + 3x2.5ST + ÜL	58-62	5450
BM1370	3x70 + 3x35/3E + 3x2.5ST + ÜL	61-65	6550
BM1367	3x95 + 3x50/3E + 3x2.5ST + ÜL	66-70	7850
BM1371	3x120 + 3x70/3E + 3x2.5ST + ÜL	69-73	9100
BM1368	3x150 + 3x70/3E + 3x2.5ST + ÜL	75-79	10630

BiTmining®(N)3GHSSHCH 12/20 kV

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1308	3x35 + 3x16/3E + 3x2.5ST + ÜL	59-63	5200
BM1314	3x35 + 3x25/3E + 3x2.5ST + ÜL	59-63	5280
BM1309	3x50 + 3x25/3E + 3x2.5ST + ÜL	63-67	6170
BM1312	3x70 + 3x35/3E + 3x2.5ST + ÜL	66-70	7240
BM1310	3x95 + 3x50/3E + 3x2.5ST + ÜL	71-75	8590
BM1313	3x120 + 3x70/3E + 3x2.5ST + ÜL	75-79	10060

Cable Factory BITNER reserves the right to modify specifications without prior notification.
Note: on customer's request other cross sections or number of cores can be produced