BiTmining®(N)3GHSSYCY

RoHS 2015/863/EU

CPR

CPR 305/2011

24 months warranty

Rubber insulated and PVC sheathed feeder cable


industrial application


EN 60332-1-2


high flexibility

UV resistance

Technical data:

Thermal parameters:

Permissible temperature on cable surface:
fixed installation: -40 °C to 80 °C
flexible operation: -25 °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 instalation
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
Protective conductor:	cross-section symmetrically split and distributed over insulation of three power cores, plain copper wires acc. to DIN VDE 0250-1
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
Stranding:	three screened main cores laid-up with the control cores in the interstices
Bedding:	plastic compound, filling the interstices
Inner sheath 1:	PVC compound type DMV6 acc. to DIN VDE 0276-603
ÜL:	concentrical monitoring conductor: plain copper wires, DC resistance ≤ 3.30 Ω/km at 20 °C
Inner sheath 2:	PVC compound type DMV6 acc. to DIN VDE 0276-603
Armour:	galvanized steel wire braid, covering min. 75%
Outer sheath:	PVC compound type DMV6 acc. to DIN VDE 0276-603, 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		

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BiTmining®(N)3GHSSYCY 6/10 kV

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1315	3x25 + 3x16/3E + 3x2.5ST + ÜL	51-55	3930
BM1316	3x35 + 3x16/3E + 3x2.5ST + ÜL	53-57	4370
BM1317	3x50 + 3x25/3E + 3x2.5ST + ÜL	56-60	5220
BM1318	3x70 + 3x35/3E + 3x2.5ST + ÜL	60-64	6310
BM1319	3x95 + 3x50/3E + 3x2.5ST + ÜL	64-68	7525
BM1320	3x120 + 3x70/3E + 3x2.5ST + ÜL	67-71	8710

BiTmining®(N)3GHSSYCY 8,7/15 kV

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1285	3x25 + 3x16/3E + 3x2.5ST + ÜL	51-55	3930
BM1286	3x35 + 3x16/3E + 3x2.5ST + ÜL	53-57	4370
BM1287	3x50 + 3x25/3E + 3x2.5ST + ÜL	56-60	5220
BM1288	3x70 + 3x35/3E + 3x2.5ST + ÜL	60-64	6310
BM1289	3x95 + 3x50/3E + 3x2.5ST + ÜL	64-68	7525
BM1290	3x120 + 3x70/3E + 3x2.5ST + ÜL	67-71	8710

BiTmining®(N)3GHSSYCY 12/20 kV

Cat. no.	n x mm²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1328	3x25 + 3x16/3E + 3x2,5ST + ÜL	55-59	4510
BM1330	3x35 + 3x16/3E + 3x2.5ST + ÜL	56-60	4960
BM1329	3x35 + 3x25/3E + 3x2.5ST + ÜL	56-60	5040
BM1331	3x50 + 3x25/3E + 3x2.5ST + ÜL	60-64	5800
BM1332	3x70 + 3x35/3E + 3x2.5ST + ÜL	64-68	6920
BM1333	3x95 + 3x50/3E + 3x2.5ST + ÜL	69-73	8240
BM1334	3x120 + 3x70/3E + 3x2.5ST + ÜL	72-76	9460
BM1335	3x150 + 3x70/3E + 3x2.5ST + ÜL	78-82	11200

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