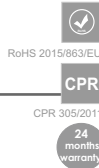
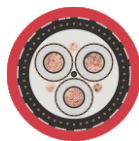


BiTmining®(N)3GHSSYCY



Rubber insulated and PVC sheathed feeder cable



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 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

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

UL: concentrical monitoring conductor: plain copper wires, DC resistance $\leq 3.30 \Omega/\text{km}$ 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	12/20
Max. permissible operating voltage $U_{0,max}$ in AC systems [kV]:	6.9/12	13.9/24
Max. permissible operating voltage $U_{0,max}$ in DC systems [kV]:	9/18	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)3GHSSYCY

Rubber insulated and PVC sheathed feeder cable

BiTmining® (N)3GHSSYCY 6/10 kV

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1315	3x25 + 3x16/3E + 3x2.5ST + ÜL	51-55	4030
BM1316	3x35 + 3x16/3E + 3x2.5ST + ÜL	53-57	4480
BM1317	3x50 + 3x25/3E + 3x2.5ST + ÜL	56-60	5300
BM1318	3x70 + 3x35/3E + 3x2.5ST + ÜL	60-64	6450
BM1319	3x95 + 3x50/3E + 3x2.5ST + ÜL	64-68	7710
BM1320	3x120 + 3x70/3E + 3x2.5ST + ÜL	67-71	8480

BiTmining® (N)3GHSSYCY 12/20 kV

Cat. no.	n x mm ²	Outer diameter min. – max. [mm]	Approximate cable weight [kg/km]
BM1328	3x25 + 3x16/3E + 3x2.5ST + ÜL	55-59	4630
BM1330	3x35 + 3x16/3E + 3x2.5ST + ÜL	56-60	5070
BM1329	3x35 + 3x25/3E + 3x2.5ST + ÜL	56-60	5150
BM1331	3x50 + 3x25/3E + 3x2.5ST + ÜL	60-64	5900
BM1332	3x70 + 3x35/3E + 3x2.5ST + ÜL	64-68	7090
BM1333	3x95 + 3x50/3E + 3x2.5ST + ÜL	69-73	8450
BM1334	3x120 + 3x70/3E + 3x2.5ST + ÜL	72-76	9750

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