

# BiTmining® REELPUR HF

RoHS 2015/863/EU



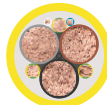
LVD 2014/35/EU

CPR

CPR 305/2011

24 months warranty

Power and control cable with increased mechanical resistance, halogen-free, rated voltage 0.6/1 kV



Mining cables



industrial application



internal application



external application



halogen-free  
EN 60754



low smoke emission  
EN 61034



EN 60332-1-2



high flexibility



UV resistance



oil resistant  
EN 60811-404



mechanical resistance

## Technical data:

### Thermal parameters:

#### Ambient temperature:

fixed installation: -40 °C to 80 °C  
flexible operation: -30 °C to 80 °C

**Max. permissible conductor temp.:** 90 °C

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

### Mechanical parameters:

**Max. tensile load per conductor:** 20 N/mm<sup>2</sup>

#### Bending radius:

fixed installation: ≥ 6 x outer - Ø  
reeling application: ≥ 8 x outer - Ø

## Design:

### Conductors:

bare, annealed copper conductors, multi-stranded class 5 acc. to EN 60228

### Insulation:

XLPE acc. to IEC 60502-1

### Core identification:

black, brown, grey, 3 x green-yellow; pilot cores: white and blue

### Core arrangement:

three main conductors laid up with protective-earth conductors around strain-relief element with aramide, pilot cores in the outer interstices  
special PUR compound  
PUR, colour: yellow (dull)

### Inner sheath:

### Outer sheath:

## Application:

Halogen-free cable used to supply power to mobile and portable devices in conditions of mechanical stress and in places where cable is often reeled and unreeled. Recommended for devices such as cable reels, hoisting devices, conveyor facilities, mobile motors. Suitable for installations in places exposed to high mechanical stress in dry, humid and wet rooms as well as for outdoor use.

## 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

Maximum permissible operating voltage  $U_{0,max}$  in AC systems [kV]:

0.7/1.2

Maximum permissible operating voltage  $U_{0,max}$  in DC systems [kV]:

0.9/1.8

AC. test voltage acc. to DIN VDE 0250-813 [kV]:

2.5

| Cat. no. | n x mm <sup>2</sup> | Outer diameter<br>min. – max.<br>[mm] | Approximate<br>cable weight<br>[kg/km] |
|----------|---------------------|---------------------------------------|--|
| BM1345   | 3x25+3G6+2x1x1      | 23,0-24,5                             | 1210                                   |
| BM1346   | 3x35+3G6+2x1x1,5    | 27,0-28,5                             | 1570                                   |
| BM1347   | 3x50+3G10+2x1x1,5   | 31,5-33,0                             | 2270                                   |
| BM1348   | 3x70+3G16+2x1x1,5   | 35,5-37,5                             | 3110                                   |
| BM1349   | 3x95+3G16+2x1x1,5   | 40,0-42,5                             | 3910                                   |
| BM1350   | 3x120+3G25+2x1x1,5  | 44,0-46,5                             | 4940                                   |
| BM1351   | 3x150+3G25+2x1x1,5  | 48,5-52,0                             | 5960                                   |

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