



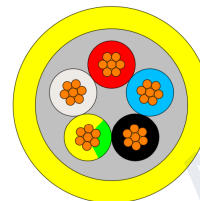
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrial cable

### YKGYyn-žo MINING POWER CABLE

PVC insulated, inner and outer sheathed mining cable



#### APPLICATION

Power cable for electrical equipment in strip, open-pit and underground mines without an explosion hazard, including underground excavation sites with class A coal dust hazard.

#### KEY FEATURES

| Parameter         | Value                                                  |
|-------------------|--------------------------------------------------------|
| Operating voltage | 0.6/1 kV                                               |
| Test voltage      | 3.5 kV                                                 |
| Conductor         | Copper, solid class 1 or stranded class 2, PN-EN 60228 |
| Temperature range | -30 C to 70 C; minimum installation -5 C               |
| Bending radius    | 10 x OD                                                |
| Protective core   | Green-yellow insulated conductor                       |
| Outer sheath      | Special non-flammable PVC; yellow                      |

#### CABLE DESIGN

| Parameter         | Value                                                              |
|-------------------|--------------------------------------------------------------------|
| 3-core colours    | Natural, red and green-yellow                                      |
| 4-core colours    | Natural, red, blue and green-yellow                                |
| 5-core colours    | Natural, red, blue, black and green-yellow                         |
| Core assembly     | Twisted power and protective conductors                            |
| Insulation        | Special PVC                                                        |
| Inner sheath      | PVC                                                                |
| Flame performance | PN-EN 60332-1 and PN-EN 60332-3-24 / IEC 60332-3; oxygen index >29 |

#### USE & HANDLING



**OPEN-PIT & STRIP**  
Mine sites



**UNDERGROUND**  
Mine sites



**FLAME PERFORMANCE**  
PN-EN 60332



**BENDING RADIUS**  
10 x OD

#### INSTALLATION NOTES

Use in non-explosion-hazard areas and the specified class A coal dust excavation sites.

Minimum installation temperature: -5 C. Minimum bending radius: 10 x OD.

The 10 mm<sup>2</sup> variants use class 2 copper conductors.

## TECHNICAL DATA

### CABLE RANGE AND DIMENSIONS

| Cable construction | Max. OD mm | Weight kg/km |
|--------------------|------------|--------------|
| 3x1.5              | 13.9       | 260          |
| 4x1.5              | 14.8       | 300          |
| 5x1.5              | 15.6       | 350          |
| 3x2.5              | 14.7       | 310          |
| 4x2.5              | 15.8       | 355          |
| 5x2.5              | 16.6       | 425          |
| 3x4                | 16.6       | 410          |
| 4x4                | 17.9       | 480          |
| 5x4                | 19.0       | 580          |
| 3x6                | 17.7       | 490          |
| 4x6                | 19.1       | 590          |
| 5x6                | 20.3       | 720          |
| 3x10*              | 20.1       | 560          |
| 4x10*              | 21.9       | 660          |
| 5x10*              | 23.3       | 820          |

\* 10 mm<sup>2</sup> conductors: class 2 according to PN-EN 60228.

### POWER CONDUCTOR ELECTRICAL SPECIFICATIONS

| Section mm <sup>2</sup> | Resistance ohm/km | Inductivity mH/km | Reactance ohm/km | Current A | Short circuit kA |
|-------------------------|-------------------|-------------------|------------------|-----------|------------------|
| 1.5                     | 12.1              | 0.34              | 0.107            | 19        | 0.17             |
| 2.5                     | 7.41              | 0.32              | 0.099            | 27        | 0.29             |
| 4                       | 4.61              | 0.32              | 0.100            | 37        | 0.46             |
| 6                       | 3.08              | 0.30              | 0.095            | 47        | 0.69             |
| 10                      | 1.83              | 0.28              | 0.089            | 62        | 1.15             |

\* 1-second short-circuit capacity at the maximum long-term conductor temperature.

### CERTIFICATIONS



TEBAOFLEX CABLE