



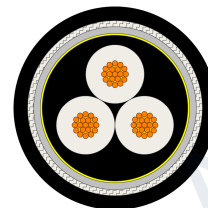
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

YKGYFtZnyn 3.6/6 kV ARMOURED MINING CABLE

PVC insulated, copper tape screened and steel tape armoured



APPLICATION

Power cable for 3.6/6 kV energy transmission and electrical equipment in mines. Installation is permitted in excavation sites with inclination up to 45 degrees.

KEY FEATURES

Parameter	Value
Operating voltage	3.6/6 kV
Test voltage	11 kV
Conductor	Compacted stranded copper, class 2, PN-EN 60228
Operating temperature	-30 C to 70 C
Armour	Galvanised steel tape
Outer sheath	Special non-flammable PVC; red

CABLE DESIGN

Parameter	Value
Insulation	Special PVC
Core marking	Natural cores marked 1, 2 and 3
Core assembly	Power conductors stranded around PVC liner
Filler sheath	PVC or non-vulcanised rubber
Inner sheath	PVC; may combine with filler if the material is the same
Common screen	Copper tape
Separating sheath	Moulded PVC or special PVC tape
Flame performance	PN-EN 60332-1 and PN-EN 60332-3-24 / IEC 60332-3; oxygen index >29

USE & HANDLING



MINING SUPPLY
3.6/6 kV



FLAME PERFORMANCE
PN-EN 60332



OXYGEN INDEX
>29



EXCAVATION SLOPE
Up to 45 degrees

INSTALLATION NOTES

Rated 3.6/6 kV; test voltage 11 kV.

Excavation inclination up to 45 degrees; minimum bending radius 10 x OD.

Filler and inner sheath may be one component when made of the same material.

TECHNICAL DATA

CABLE RANGE AND DIMENSIONS

Section mm ²	Cable construction	Outer diameter mm	Weight kg/km
10	3x10/10	38.7	2298
16	3x16/10	41.5	2711
25	3x25/14	44.5	3377
35	3x35/16	47.2	4241
50	3x50/18	51.0	5022
70	3x70/18	55.0	5989
95	3x95/20	60.0	7240
120	3x120/22	63.8	8272
150	3x150/24	69.3	9948
185	3x185/27	72.7	11978

POWER CONDUCTOR ELECTRICAL SPECIFICATIONS

Section mm ²	Resistance ohm/km	Inductivity mH/km	Reactance ohm/km
10	1.83	0.400	0.126
16	1.15	0.372	0.117
25	0.727	0.349	0.110
35	0.524	0.338	0.106
50	0.387	0.317	0.100
70	0.268	0.299	0.094
95	0.193	0.286	0.090
120	0.153	0.278	0.087
150	0.124	0.268	0.084
185	0.0991	0.262	0.082

EARTH AND CURRENT RATINGS

Section mm ²	Earth cap. / Earth SC uF/km / A/km	Short circuit kA	Current A
10	0.11 / 0.35	1.15	66
16	0.11 / 0.37	1.84	85
25	0.12 / 0.40	2.88	110
35	0.13 / 0.41	4.03	133
50	0.13 / 0.43	5.75	160
70	0.14 / 0.45	8.05	197
95	0.15 / 0.47	10.93	240
120	0.15 / 0.49	13.8	276
150	0.15 / 0.50	17.25	314
185	0.16 / 0.51	21.28	360

Earth cap.: to-earth capacitance; Earth SC: to-earth short-circuit current.

CERTIFICATIONS



TEBAOFLEX CABLE