



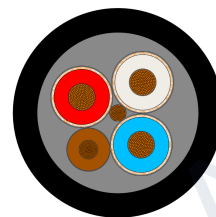
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

YnOGYekm SCREENED MINING CABLE

PVC insulated and sheathed low-voltage mining cable



APPLICATION

Flexible cable for stationary and portable electrical equipment in open-pit, strip and underground mines, including methane hazard classes a, b and c and coal dust hazard classes A and B.

KEY FEATURES

Parameter	Value
Operating voltage	0.6/1 kV
Test voltage	3.2 kV power conductors; 2 kV control conductors
Conductor	Copper, class 5, PN-EN 60228
Individual screen	Copper wire braid and plastic thread on each power conductor
Temperature range	-30 C to 70 C; short circuit up to 160 C
Bending radius	6 x OD fixed installation; 10 x OD movable installation
Outer sheath	Special non-flammable PVC; yellow

CABLE DESIGN

Parameter	Value
Power colours	Natural, red and blue
Protective conductor	Copper, non-insulated
Control colours	Brown for one core; natural, red and blue for three cores
Stranding	Screened power and control conductors around the protective wire
Inner sheath	PVC
Flame performance	PN-EN 60332-1 and PN-EN 60332-3-24 / IEC 60332-3; oxygen index >29

TECHNICAL DATA

CABLE RANGE AND DIMENSIONS

Cable construction	Total conductors	Power mm ²	Protective mm ²	Control mm ²	Max. OD mm	Weight kg/km
5 conductors: 3 power + 1 protective + 1 control						
3x2.5+2.5+2.5	5	2.5	2.5	2.5	18.6	505
3x4+4+4	5	4	4	4	20.0	619
3x6+6+4	5	6	6	4	23.6	810
3x10+10+6	5	10	10	6	25.8	1110
3x16+16+10	5	16	16	10	29.8	1560
3x25+16+16	5	25	16	16	35.6	2340
7 conductors: 3 power + 1 protective + 3 controls						
3x16+16+3x1.5	7	16	16	1.5	30.3	1600
3x25+16+3x2.5	7	25	16	2.5	38.1	2175
3x35+16+3x2.5	7	35	16	2.5	41.1	2770
3x50+25+3x4	7	50	25	4	47.5	3760
3x70+35+3x4	7	70	35	4	54.1	5010
3x95+35+3x4	7	95	35	4	63.0	6410
3x120+50+3x4	7	120	50	4	67.5	8130

POWER CONDUCTOR ELECTRICAL SPECIFICATIONS

Cross-section mm ²	Reactance ohm/km	Inductivity mH/km	Capacitance uF/km	Current capacity A
2.5	0.126	0.40	0.42	27
4	0.113	0.36	0.55	37
6	0.110	0.35	0.57	47
10	0.104	0.33	0.62	66
16	0.096	0.28	0.66	90
25	0.094	0.28	0.67	115
35	0.090	0.27	0.76	144
50	0.088	0.26	0.81	176
70	0.084	0.25	0.92	213
95	0.083	0.25	0.96	250
120	0.080	0.24	1.08	290

CERTIFICATIONS



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