



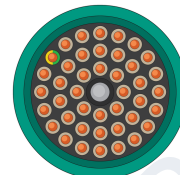
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TRA HEAVY-DUTY REELING PUR CABLE

Flexible PUR cable for motorized reels and severe dynamic service



APPLICATION

Flexible PUR round cable for continuous heavy-duty operation, adapted for motorized reels, monospiral, random winding and level-wind reels. Suitable for horizontally and vertically operating machinery, portal cranes, shiploaders and stacker/reclaimers.

KEY FEATURES

Parameter	Value
Reeling use	Maximum travel speed 200 m/min on spring and motorized reels
Mechanical protection	Double polyurethane sheath with embedded anti-twisting braid
Operating environment	Outdoor use and dry, humid and wet rooms
Dynamic performance	Slim, resilient and suitable for vertical applications

DESIGN

Parameter	Value
Conductor	Flexible Class 5 copper
Core insulation	Polypropylene
Inner and outer sheath	Special polyurethane compounds
Jacket color	RAL 6032 green

TECHNICAL DATA

CONTROL CABLE DATA

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
7 G 2.5	13.3-14.7	156	300	525
12 G 2.5	20.5-22.6	268	650	900
20 G 2.5	21.0-23.1	448	800	1,500
24 G 2.5	24.3-26.8	533	1,000	1,800
28 G 2.5	26.0-28.4	672	1,150	2,100
42 G 2.5	30.0-33.1	947	1,600	3,150
54 G 2.5	33.2-36.7	1,312	2,000	4,050

POWER CABLE DATA

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/km	Tensile load N
5 G 10	19.5-20.5	480	700	1,500
5 G 16	23.0-24.0	768	1,005	2,400
5 G 25	27.5-28.0	1,200	1,600	3,750

CURRENT-CARRYING CAPACITY AND VOLTAGE DROP

Configuration	Current carrying capacity max A	Voltage drop V/A.km	Resistance max Ohm/km
7G2.5	20	14.0	7.98
12G2.5	16	14.0	7.98
20G2.5	13	14.0	7.98
24G2.5	12	14.0	7.98
28G2.5	11	14.0	7.98
42G2.5	10	14.0	7.98
54G2.5	9	14.0	7.98

POWER CABLE ELECTRICAL VALUES

Configuration	Current carrying capacity max A	Voltage drop V/A.km	Resistance max Ohm/km
5G10	75	3.36	7.98
5G16	100	2.15	7.98
5G25	127	1.42	7.98

TECHNICAL DATA

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage	0.6/1 kV
Maximum permitted AC voltage	0.7/1.2 kV
Maximum permitted DC voltage	0.9/1.8 kV
AC test voltage	According to IEC 60502-1
Travel speed	Maximum 200 m/min, horizontal and vertical
Ambient temperature, flexing	-25 deg C to +60 deg C
Ambient temperature, fixed	-30 deg C to +60 deg C
Maximum conductor temperature	80 deg C
Short-circuit conductor temperature	200 deg C
Minimum bending radius	6 x D on spool; 9 x D guiding device; 4 x D anti-tension drum
Tensile load capacity	25 N/mm ² , according to data table
Chemical resistance	Ozone, humidity, moisture, UV and oil resistant
Flammability	Low flammability according to IEC 60332-1
Halogen status	Halogen free
Insulation	Polypropylene
Inner and outer sheath	Highly abrasion-resistant polyurethane
Conductor	Flexible copper, Class 5 according to IEC 60228 / VDE 0295
Reinforcement	Embedded textile anti-twisting braid
Core coding	Green/yellow, blue, brown, black and grey; control cores black with printed numbers
Jacket color	RAL 6032 green
Voltage test	IEC 60502-1

CERTIFICATIONS



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