



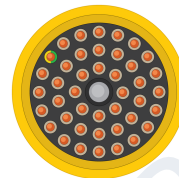
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TRA-RF LV EXTRA HEAVY-DUTY SPREADER VERTICAL REELING PUR CABLE

Extra heavy-duty PUR cable for motorized reels in vertical applications



APPLICATION

Flexible extra heavy-duty round cable for continuous operation on motorized reels, especially spreaders and portal cranes. Suitable for outdoor, dry, humid and wet rooms with speeds up to 200 m/min.

KEY FEATURES

Parameter	Value
Heavy-duty design	Double polyurethane sheath with embedded textile anti-twisting braid
High tensile capacity	Central elastomer reinforcement element with Kevlar ropes
Dynamic performance	Designed for high reeling speeds and high tensile loads
Application range	Motorized reels, spreaders and horizontal or vertical machinery

DESIGN

Parameter	Value
Conductor	Flexible copper, class 5 according to IEC 60228 / VDE 0295
Insulation	Black polypropylene
Sheath	Highly abrasion-resistant double polyurethane sheath
Type	(N)SHTOEU-J; jacket color RAL 1021 yellow

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage U_0/U	600 / 1000 V
Maximum AC voltage U_0/U	700 / 1200 V
Maximum DC voltage U_0/U	900 / 1800 V
AC test voltage	According to IEC 60502-1
Ambient temperature, flexing	-25 deg C to +60 deg C
Ambient temperature, fixed	-30 deg C to +60 deg C
Conductor temperature	80 deg C; short circuit 200 deg C
Minimum bending radius	6 x D spool; 9 x D guiding device; 4 x D anti-tension drum
Travel speed	Up to 200 m/min horizontal and vertical
Tensile load	30 N/mm ² ; refer to data table
Chemical resistance	Ozone, humidity, UV, moisture and oil resistant
Flammability	Low flammability class C3 according to IEC 60332-1
Materials	Polyurethane inner sheath; double outer sheath; textile anti-twisting braid
Reinforcement	Extruded elastomer cord with Kevlar ropes

TECHNICAL DATA

TRA-RF POWER CABLE - 0.6/1 kV

Configuration	Outer diameter min.-max. mm	Cu approx. kg/km	Weight approx. kg/m	Permitted tensile load N
24 x 2.5	26.8 - 27.8	576	1.100	1,800
42 x 2.5	32.5 - 34.1	1,008	1.620	3,150

ELECTRICAL PERFORMANCE

Configuration	Current max. A	Voltage drop V/A.km	Resistance max. Ohm/km
24 G 2.5	20	14.0	7.98
42 G 2.5	16	14.0	7.98

APPLICATION NOTES

Parameter	Value
Travel speed	Up to 200 m/min horizontal and vertical reeling
Bending	6 x D spool; 9 x D guiding device; 4 x D anti-tension drum
Temperature	-25 deg C to +60 deg C flexing; -30 deg C to +60 deg C fixed
Standards	IEC 60228 / VDE 0295 / IEC 60502-1

CERTIFICATIONS



TEBAOFLEX CABLE