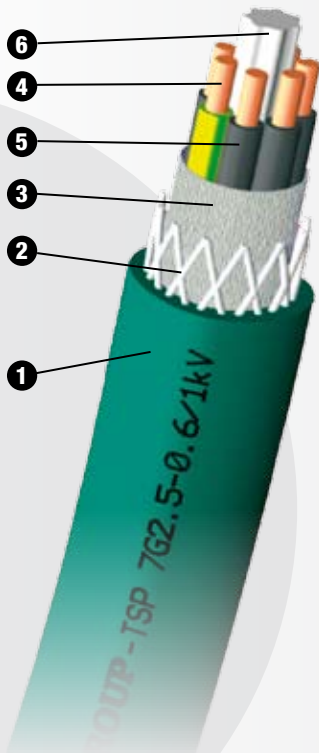


TSP

FLEXIBLE CABLES FOR REELING APPLICATIONS - STANDARD DUTY OPERATIONS - 0.6 / 1 KV



All the very stringent characteristics of the insulating cover and the sheath make the cable suitable for use with reeling systems such as power supply of moving machines. In addition to its excellent mechanical characteristics, the **polyurethane** sheath has a good resistance to wear combined with a high flexibility over a large range of temperatures.

Design

- ❶ Green polyurethane outer sheath RAL 6032
- ❷ Textile anti twist braid
- ❸ Semi conductive layer
- ❹ Plain copper cores 2.5 mm²
- ❺ Polypropylene insulation:
 - Phase cores: black with printed numbers
 - Earth core: green / yellow
- ❻ Elastomer filler

Marking

« CONDUCTIX WAMPFLER / TSP __G2.5 - 0.6/1kV »



7G



12G



20G & 24G



30G



39G

Standards

- NF-EN 60228 (class 5) and/or CEI 60228 for copper cores
- VDE 295 - BSI 6360 for copper cores
- Flame resistance: class C3 (not tested)
- Halogen free

Conditions of use

- Suitable for all spool types in adequacy with the minimum bending radius.
- **Not suitable for level wind application.**
- Installation with deflection pulley: contact us.

Voltage

- 0.6 / 1 kV - Low Voltage

Linear reeling speed

- 60 m/min max.

Ambient temperature

- From -25 up to +60°C (see table for de-rating factors on next page).



Cables TSP Technical Data						
Number of Cores and Nominal C.S.A. (mm ²)	7 G 2.5	12 G 2.5	20 G 2.5	24 G 2.5	30 G 2.5	39 G 2.5
Mechanical Data						
Min. outer diameter (mm)	13.3	15.2	19.0	21.0	21.4	24.8
Max. outer diameter (mm)	14.7	16.8	21.0	23.1	23.6	27.3
Unsheathed cable diameter (mm)	10.0	12.0	15.5	17.5	18.5	21.0
Linear weight (kg/m)	0.29	0.41	0.67	0.81	0.90	1.20
Min. bending radius (mm) :						
Anchor drum	Max. cable outer diameter × 4					
Spool	Max. cable outer diameter × 6					
Guiding device	Max. cable outer diameter × 9					
Pulley	Not recommended - Contact us					
Max. tensile load (daN) :						
Direct	21	36	60	72	90	117
With guiding device	21	36	60	72	90	117
With pulley	Not recommended - Contact us					
Electrical Data						
Current carrying capacity (A) ^(a)	20	16	13	12	11	10
Voltage drop (V/A.km) ^(b)	14	14	14	14	14	14
Resistance	Max. DC resistance of a core @ +20°C = 7.98 Ω/km					

(a): Cable laid on the ground @ +30°C

(b): $\cos \varphi = 0.8$ / temperature of the cores = +90°C

Recommendations

- Amperage de-rating factor for reeling applications: 0.85

- De-rating factors in relation to the ambient temperature above 30°C:

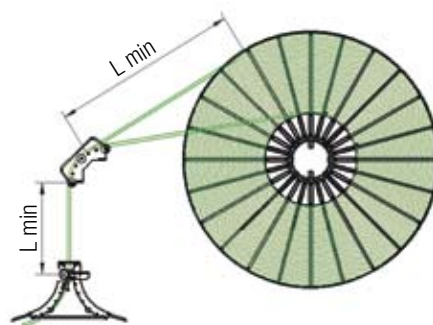
30°C up to 40°C	0.90
40°C up to 50°C	0.80
50°C up to 55°C	0.74
55°C up to 60°C	0.65

- Recommended voltage drop limits:

Usual	5%
Lighting	3%
Frequency inverter	2.5%

Installation

- Minimum distance between two guiding devices: $L_{\min} = 20 \times \text{cable O.D.}$



- Deflection angle (if $\varnothing r < \text{bending radius}$) = 15° max for laying on rollers

