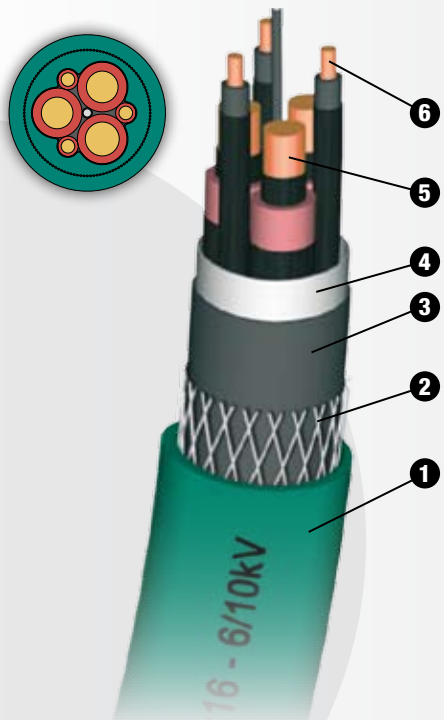
HTP

FLEXIBLE CABLES FOR REELING APPLICATIONS - ALL OPERATIONS - HIGH VOLTAGE



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

1. Green polyurethane outer sheath RAL 6032
2. Textile anti twist braid.
3. Polyurethane inner sheath.
4. Semi conductive strip.
5. Phase: annealed tinned copper cores wrapped in a semi conductive layer and covered with an elastomer insulation.
6. Earth: annealed tinned copper cores wrapped in a semi conductive layer.

Short lay-length assembled conductors wrapped in a semi conductive strip.

Marking

« ***CONDUCTIX*** **WAMPFLER / HTP 3×__+3×__ - __/__kV »**

Standards

- **CEI 60228** for the copper cores
- **NF 32013**
- **VDE 0295**
- 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.**

Linear reeling speed

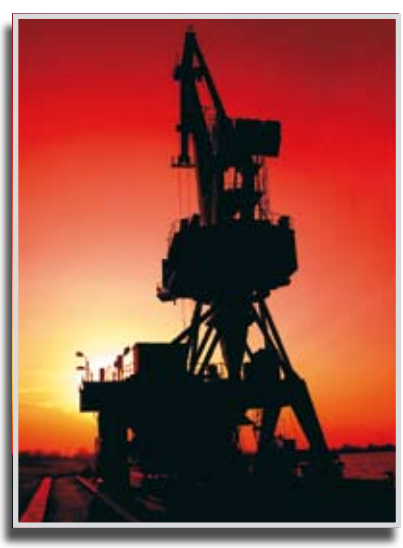
- **60 m/min** max

Voltage

- 3.6/6 (7.2) kV up to 12/20 (24) kV - High Voltage

Ambient temperature

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



Cables HTP Technical Data

Number of Cores and Nominal C.S.A. (mm²)	3×25 + 3×10	3×35 + 3×10	3×50 + 3×10	3×70 + 3×16	3×95 + 3×16	3×120 + 3×25
Type - Rated Votage	**HTP 3.6 / 6 (7.2) kV**					
Min. outer diameter (mm)	36.0	39.0	42.0	46.0	50.5	55.0
Max. outer diameter (mm)	39.0	42.0	45.0	49.0	54.0	58.0
Unsheathed cable diameter (mm)	34.0	37.0	40.0	44.0	48.5	53.0
Linear weight (kg/m)	1.90	2.30	2.86	3.80	4.70	5.90
Type - Rated Votage	**HTP 6 / 10 (12) kV**					
Min. outer diameter (mm)	36.0	39.0	42.0	46.0	50.5	*55.0*
Max. outer diameter (mm)	39.0	42.0	45.0	49.0	54.0	*58.0*
Unsheathed cable diameter (mm)	34.0	37.0	40.0	44.0	48.5	*53.0*
Linear weight (kg/m)	1.90	2.30	2.86	3.80	4.70	*5.90*
Type - Rated Votage	**HTP 8.7 / 15 (18) kV**					
Min. outer diameter (mm)	36.0	39.0	42.0	46.0	50.5	*55.0*
Max. outer diameter (mm)	39.0	42.0	45.0	49.0	54.0	*58.0*
Unsheathed cable diameter (mm)	34.0	37.0	40.0	44.0	48.5	*53.0*
Linear weight (kg/m)	1.90	2.30	2.86	3.80	4.70	*5.90*
Type - Rated Votage	**HTP 12 / 20 (24) kV**					
Min. outer diameter (mm)	44.5	44.5	*46.5*	*50.5*	*53.0*	N/A
Max. outer diameter (mm)	47.5	47.5	*50.0*	*54.0*	*56.5*	
Unsheathed cable diameter (mm)	42.5	42.5	*44.5*	*48.5*	*51.0*	
Linear weight (kg/m)	2.65	2.90	*3.30*	*4.30*	*5.10*	
Mechanical & Electrical Data						
Max. tensile load (daN)	112	157	225	315	427	540
Current carrying capacity (A) [(a)]	127	158	192	246	298	346
Voltage drop (V/A.km) [(b)]	1.50	1.10	0.77	0.57	0.46	0.38
Thermal short circuit current (kA/sec)	3.22	4.50	6.43	9.00	12.20	15.40
Min. bending radius (mm)	Static : 6 × cable max. O.D. / Dynamic : 12 × cable max. O.D.					

Oblique grey tint: cable not referenced, contact us.

(a) : Cable laid on the ground @ +30°C
(b) : cos φ = 0.8 / temperature of 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:

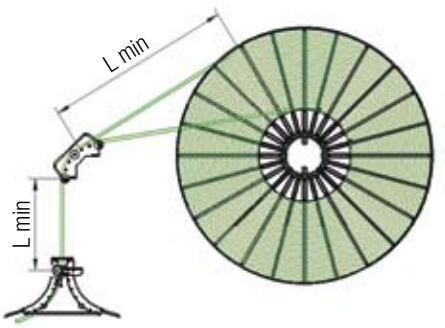
30°C up to 40°C	0.90
40°C up to 50°C	0.80
50°C up to 55°C	0.74
55°C up to 60°C	0.65

- Recommended voltage drop limits:

Usual	5%
Lighting	3%
Frequency inverter	2.5%

Installation

- Minimum distance between two guiding devices: L min = 20 × cable O.D.



- Deflection angle (if Ør < bending radius) = 15° max for laying on rollers