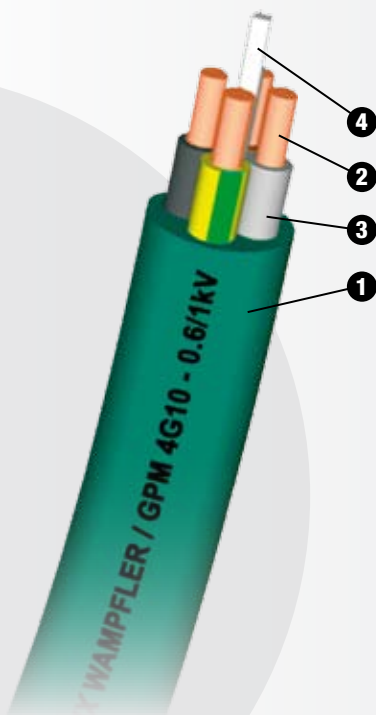


GPM

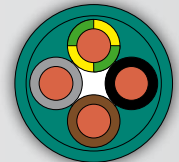
FLEXIBLE CABLES FOR REELING APPLICATIONS - STANDARD DUTY OPERATIONS - 0.6 / 1 kV



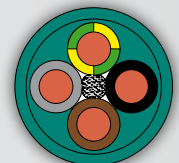
All the very stringent characteristics of the insulating cover and the sheath make the cable suitable for use with reeling systems such as power supply of moving machines. In addition to its excellent mechanical characteristics, the **polyurethane** sheath has a good resistance to wear combined with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

Design

- ❶ Polyurethane double sheath, green coloured RAL 6032
- ❷ Plain copper cores
- ❸ Insulation:
 - 3 phase cores black - brown - grey
 - 1 earth core green / yellow
- ❹ Reinforced filler (for sections $\geq 4G10 \text{ mm}^2$)



$S < 4G10\text{mm}^2$



$S \geq 4G10\text{mm}^2$

Marking

“CONDUCTIX WAMPFLER / GPM 4G__ - 0.6/1kV”

Standards

- NF-EN 60228 (class 5) and/or CEI 60228 for the copper cores
- VDE 295 - BSI 6360 for the 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 applications.**
- Installation with a 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 of de-rating factors on next page).



Cables GPM Technical Data

No of Cores and Nominal C.S.A. (mm ²)	4 G 2.5	4 G 4	4 G 6	4 G 10	4 G 16	4 G 25
Mechanical Data						
Min. outer diameter (mm)	9.6	11.3	13.0	16.2	19.5	24.2
Max. outer diameter (mm)	11.0	13.0	15.0	17.9	21.5	26.8
Unsheathed cable diameter (mm)	9.0	10.0	12.0	14.5	18.0	22.0
Linear weight (kg/m)	0.19	0.27	0.37	0.55	0.85	1.25
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	10	16	24	50	80	125
With guiding device	10	16	24	50	80	125
With pulley	Not recommended - Contact us					
Electrical Data						
Current carrying capacity (A) ^(a)	30	40	50	75	100	127
Voltage drop (V/A.km) ^(b)	14.0	9.0	6.0	3.5	2.3	1.5
Max resistance (Ω/km) ^(c)	7.98	4.95	3.30	1.91	1.21	0.78

(a): Cable laid on the ground @ +30°C

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

(c): DC resistance of a core @ +20°C

Recommendations

- Amperage de-rating factor for reeling applications: 0.85
- De-rating factors in relation to the ambient temperature above 30°C:

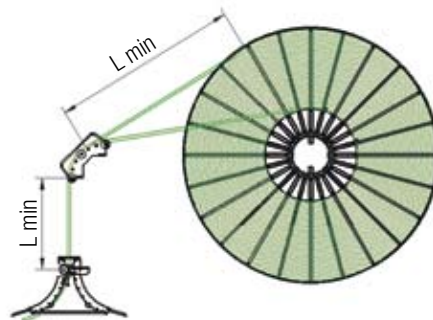
30°C up to 40°C	0.90
40°C up to 50°C	0.80
50°C up to 55°C	0.74
55°C up to 60°C	0.65

- 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 $\emptyset r < \text{bending radius}$) = 15° max for laying on rollers

