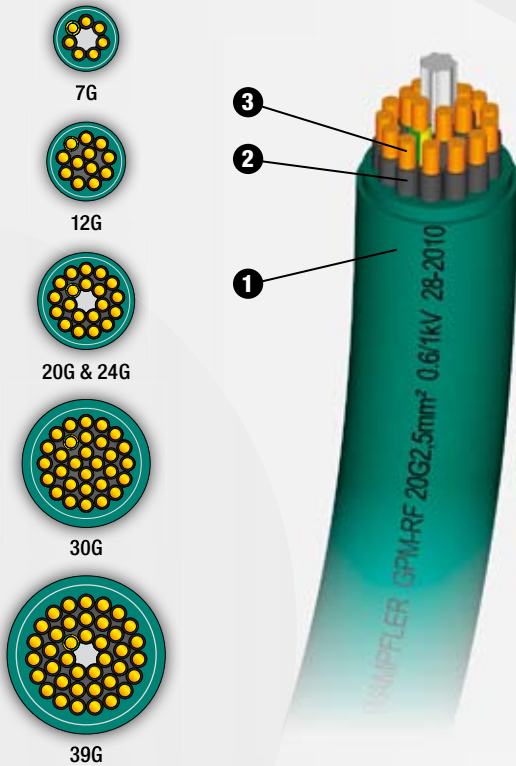


GPM-RF | Multi

FLEXIBLE CABLE FOR REELING APPLICATIONS
STANDARD DUTY OPERATIONS - 0.6 / 1 kV - LOW VOLTAGE



Both, the very stringent characteristics of the insulating cover and the sheath make the cable suitable for use on reeling systems for 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 Double polyurethane sheath | Green RAL 6032
- 2 Flexible copper cores
- 3 Polypropylene insulation:
 - black with printed numbers
 - earth conductor green / yellow

Short length of lay and assembled conductors around an elastomer filler (7G, 18G, 20G, 24G, and 39G)

Marking

CONDUCTIX-WAMPFLER GPM-RF __G__.5mm² 0.6/1kV ww-yyyy*

* ww-yyyy : manufacturing date

Standards

- For the copper cores:
 - NF-EN / IEC 60228 class 5
 - VDE 295
 - BSI 6360
- IEC 60502-1: voltage test
- Flame resistance: class C3 (not tested)
- Halogen free

Conditions of use

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

Rated voltage

- 0.6 / 1 kV - Low Voltage

Linear reeling speed

- 90 m/min max

Ambient temperature

- -25 up to +60°C (pls refer to the de-rating factors table on the next page).



Cable GPM-RF | Multi

Number of cores and nominal section [mm ²]	7G2.5	12G2.5	20G2.5	24G2.5	30G2.5	39G2.5
Order No.	GPF50725	GPF51225	GPF52025	GPF52425	GPF53025	GPF53925
Mechanical Data						
Overall diameter min. [mm]	13.0	15.0	19.0	21.0	22.0	25.0
Overall diameter max. [mm]	15.0	17.5	21.0	24.0	25.0	28.0
Unsheathed cable diameter [mm]	10.5	13.0	15.0	18.5	19.5	23.5
Linear weight [kg/m]	0.28	0.41	0.66	0.82	0.90	1.16
Bending radius min. [mm]						
- on anchor drum	Cable overall diameter max. × 4					
- on spool	Cable overall diameter max. × 6					
- on guiding device	Cable overall diameter max. × 9					
- on pulley	Not recommended - Consult us					
Tensile load capacity max. [daN]						
- direct	35	60	100	120	150	195
- with guiding device	35	60	100	120	150	195
- with pulley	Not recommended - Consult us					
Electrical Data						
Current carrying capacity max. ^(a) [A]	20	16	13	12	11	10
Voltage drop ^(b) [V/A.km]	14.0	14.0	14.0	14.0	14.0	14.0
Resistance max. ^(c) [Ω/km]	7.98	7.98	7.98	7.98	7.98	7.98

(a) : cable laid straight 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:

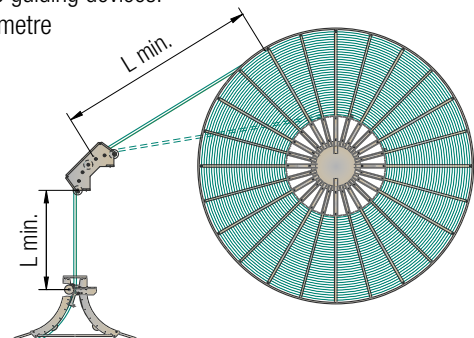
30°C up to 40°C	0.90
40°C up to 50°C	0.80
50°C up to 55°C	0.74
55°C up to 60°C	0.65

- Recommended voltage drop limit:

General use	5%
Lighting	3%
Frequency inverter	2.5%

Installation

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



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

