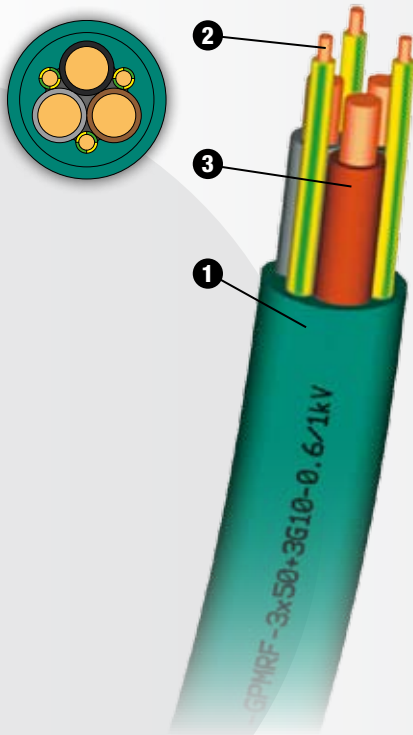


GPM-RF

FLEXIBLE CABLES FOR REELING APPLICATIONS - HEAVY 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, a good resistance to weathering agents, and an excellent stability against oils, greases, and against a lot of solvents.

Design

- ❶ Polyurethane double sheath, green coloured RAL 6032
- ❷ Plain copper cores
- ❸ Insulation:
 - 3 phase cores black - brown - grey
 - 3 earth cores green / yellow

Marking

"CONDUCTIX WAMPFLER / GPM-RF 3x__+3G__ - 0.6/1kV"

Standards

- NF EN CEI 60228 class 5 for the copper cores
- NF C 32-013 - VDE 0295 - BSI 6360 for the copper cores
- CEI 60502-1: voltage test
- 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

- 90 m/min max.

Ambient temperature

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



Cables GPM-RF Technical Data

Number of Cores and Nominal C.S.A. (mm ²)	3×25 + 3G6	3×35 + 3G6	3×50 + 3G10	3×70 + 3G16	3×95 + 3G16	3×120 + 3G25	3×150 + 3G25	3×185 + 3G35	3×240 + 3G50
Mechanical Data									
Min. outer diameter (mm)	24.3	27.2	31.0	35.9	40.7	45.6	50.4	56.3	64.0
Max. outer diameter (mm)	25.8	28.8	33.0	38.1	43.3	48.4	53.6	59.7	68.0
Unsheathed cable diameter (mm)	20.5	23.0	26.5	31.0	35.0	39.5	45.0	47.5	55.5
Linear weight (kg/m)	1.20	1.55	2.16	3.10	3.84	4.98	6.03	7.51	9.93
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	150	210	300	420	570	720	900	1 110	1 440
With guiding device	110	160	240	340	440	580	700	880	1 160
With pulley	Not recommended - Contact us								
Electrical Data									
Current carrying capacity (A) ^(a)	127	158	192	246	298	346	395	450	538
Voltage drop (V/A/km) ^(b)	1.46	1.00	0.75	0.55	0.44	0.36	0.30	0.26	0.22
Max. resistance (Ω/km) ^(c)	0.780	0.554	0.386	0.272	0.206	0.161	0.129	0.106	0.080
Dynamic short circuit current (A/s)	2.49	3.49	4.99	6.98	9.47	11.96	14.96	18.45	23.96

Oblique grey tint: cable not referenced, contact us.
(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:

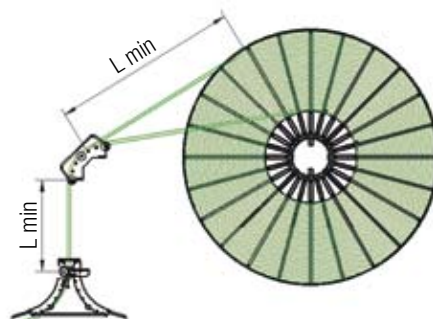
30°C up to 40°C	0.90
40°C up to 50°C	0.80
50°C up to 55°C	0.74
55°C up to 60°C	0.65

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

