



Halogen-free PUR reeling cables

GMP (GPM)

0.6/1 kV Halogen-Free PUR Cable for Random-Winding Reels

Compact polypropylene-insulated, black PUR-sheathed cable for spring & motor reels



0.6/1 kV

12 N/mm² Tensile

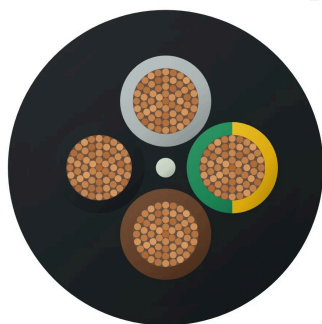
Random-Winding PUR Reel

Application

Halogen-free 0.6/1 kV PUR round reeling cable (GMP / GPM) for random-winding reels and horizontal machinery up to 60 m/min, with Class 5 copper cores, polypropylene insulation around a reinforced central filler and a black PUR jacket.

Typical uses: Random-winding spring & motor reels, Transfer cars & horizontal gantries, Ergonomic handling & manipulator arms, Automated warehouse & conveyor lines, Indoor & outdoor industrial cranes, Mobile workshop & port service equipment

Construction



Cross-section, not to scale

1 ConductorIEC 60228 / DIN VDE 0295 /
BS 6360 Class 5**2** Central reinforced filler12 N/mm² tensile load-
bearing capacity**3** Core insulation**4** Outer sheath

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (IEC 60502-1)	Voltage test	3.5 kV AC per IEC 60502-1
Ambient temperature — flexing / fixed	-25 to +90 °C flexing · -30 to +90 °C fixed	Max. conductor operating temperature	+80 °C (short-circuit +200 °C)
Max. horizontal travel speed	Up to 60 m/min on standard-duty random-winding reels (higher speeds on request)	Permissible tensile load	12 N/mm ² (90 N on 3G2.5 up to 360 N on 5G6)
Min. bending radius	4 × D on anti-tension drum · 6 × D on reel spool · 9 × D on guiding device	Standards	IEC 60228 / DIN VDE 0295 / BS 6360 Class 5 · IEC 60502-1 · IEC 60332-1
Standard packing	Drums or custom cut reeling lengths		

Sizes

7 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	OD min mm	OD max mm	Copper kg/km	Weight ≈ kg/km	Spool R (6×D) mm	Max. pull N
2.5 mm ² (3G–5G) 3 sizes								
☐ GMP (GPM) 3G2.5	3 G 2.5	14	9.0	10.0	72	150	60	90
☐ GMP (GPM) 4G2.5	4 G 2.5	14	9.9	11.3	96	170	68	120
☐ GMP (GPM) 5G2.5	5 G 2.5	14	10.8	12.0	120	200	72	150
4.0 & 6.0 mm ² (4G–5G) 4 sizes								
☐ GMP (GPM) 4G4	4 G 4	12	11.3	12.5	154	250	75	192
☐ GMP (GPM) 5G4	5 G 4	12	12.6	14.0	192	300	84	240
☐ GMP (GPM) 4G6	4 G 6	10	12.6	14.0	230	320	84	288
☐ GMP (GPM) 5G6	5 G 6	10	14.4	16.0	288	410	96	360

– Spool R (6×D) applies on the reel drum barrel; allow 9 × D over guiding rollers and 4 × D on the anchor anti-tension drum.

Ampacity, voltage drop & resistance

7 sizes

Configuration	AWG ≈	Max. current A	Voltage drop V/(A·km)	Max. R20 Ω/km
3 G 2.5	14	36	14	7.98
4 G 2.5	14	31	14	7.98
5 G 2.5	14	31	14	7.98
4 G 4	12	42	8.8	4.95
5 G 4	12	42	8.8	4.95
4 G 6	10	54	5.9	3.3
5 G 6	10	54	5.9	3.3

– Apply reel layer derating factors according to the number of wound layers on the drum.

Standards and approvals

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/gmp-pur-reeling-cable



Typical values for this cable type, based on IEC 60502-1 / IEC 60228. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.