



PUR low-voltage reeling cables (0.6/1 kV)

# GPM-RF

## 0.6/1 kV Heavy-Duty Double-Sheath PUR Reeling Cable

Anti-torsion reinforced green PUR reeling cable for monospiral &amp; cylindrical reels



0.6/1 kV

Double PUR + Braid

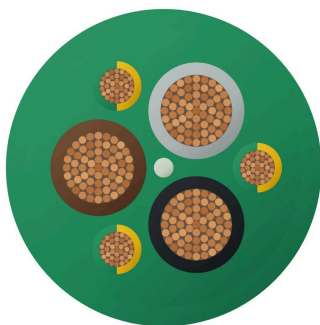
90 m/min · 20 N/mm<sup>2</sup>

### Application

Heavy-duty 0.6/1 kV double-sheath polyurethane reeling cable (GPM-RF) for high-pull random-winding and monospiral reels up to 90 m/min, featuring an embedded anti-torsion textile braid, green RAL 6032 PUR outer jacket, and 20 N/mm<sup>2</sup> tensile capacity.

**Typical uses:** Container terminal RMG & RTG cranes, Bulk material stackers & reclaimers, Overhead steelworks & foundry cranes, Automated transfer cars & rail shuttles, Shipbuilding & dockyard portal cranes, Heavy timber, recycling & quarry conveyors

### Construction



Cross-section, not to scale

- 1 Conductors
- 2 Core insulation
- 3 Central support & stranding
- 4 Inner sheath
- 5 Anti-torsion reinforcement braid
- 6 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 +80 °C flexing · -30 to +80 °C fixed                                           | Max. conductor operating temperature | +90 °C (short-circuit +200 °C)                                         |
| Max. horizontal travel speed          | Up to 90 m/min on random-winding and monospiral reels (higher speeds on consultation) | Permissible tensile load             | 20 N/mm <sup>2</sup> (350 N on 7G2.5 up to 11,100 N on 3×185+3G35)     |
| 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                      | Returnable wooden drums or cut-to-length reeling assemblies                           |                                      |                                                                        |

## Sizes

17 standard constructions

Tick the sizes you need and send this page to [info@tebaoflex.com](mailto:info@tebaoflex.com) or WhatsApp +86 185 9591 3361.

| Order designation                            | Cores × mm <sup>2</sup> | OD min<br>mm | OD max<br>mm | Cu weight<br>kg/km | Total weight ≈<br>kg/km | Max. pull<br>N | Rated current<br>A (30 °C) |
|----------------------------------------------|-------------------------|--------------|--------------|--------------------|-------------------------|----------------|----------------------------|
| Control 2.5 mm <sup>2</sup> 6 sizes          |                         |              |              |                    |                         |                |                            |
| <input type="checkbox"/> GPM-RF 7 G 2.5      | 7 G 2.5                 | 13.0         | 15.0         | 155                | 280                     | 350            | 20                         |
| <input type="checkbox"/> GPM-RF 12 G 2.5     | 12 G 2.5                | 15.0         | 17.5         | 260                | 410                     | 600            | 16                         |
| <input type="checkbox"/> GPM-RF 20 G 2.5     | 20 G 2.5                | 19.0         | 21.0         | 445                | 660                     | 1,000          | 13                         |
| <input type="checkbox"/> GPM-RF 24 G 2.5     | 24 G 2.5                | 21.0         | 24.0         | 533                | 820                     | 1,200          | 12                         |
| <input type="checkbox"/> GPM-RF 30 G 2.5     | 30 G 2.5                | 22.0         | 24.0         | 648                | 900                     | 1,500          | 11                         |
| <input type="checkbox"/> GPM-RF 39 G 2.5     | 39 G 2.5                | 25.0         | 28.0         | 855                | 1,160                   | 1,950          | 10                         |
| Power 4G (10–25 mm <sup>2</sup> ) 3 sizes    |                         |              |              |                    |                         |                |                            |
| <input type="checkbox"/> GPM-RF 4 G 10       | 4 G 10                  | 16.0         | 18.0         | 384                | 550                     | 800            | 75                         |
| <input type="checkbox"/> GPM-RF 4 G 16       | 4 G 16                  | 19.3         | 21.5         | 614                | 850                     | 1,280          | 100                        |
| <input type="checkbox"/> GPM-RF 4 G 25       | 4 G 25                  | 23.9         | 26.5         | 960                | 1,300                   | 2,000          | 127                        |
| Power 3+3 (25–185 mm <sup>2</sup> ) 8 sizes  |                         |              |              |                    |                         |                |                            |
| <input type="checkbox"/> GPM-RF 3×25 + 3G6   | 3×25 + 3G6              | 23.2         | 25.8         | 856                | 1,200                   | 1,500          | 127                        |
| <input type="checkbox"/> GPM-RF 3×35 + 3G6   | 3×35 + 3G6              | 26.6         | 29.5         | 1,030              | 1,500                   | 2,100          | 158                        |
| <input type="checkbox"/> GPM-RF 3×50 + 3G10  | 3×50 + 3G10             | 29.5         | 32.5         | 1,500              | 2,150                   | 3,000          | 192                        |
| <input type="checkbox"/> GPM-RF 3×70 + 3G16  | 3×70 + 3G16             | 34.0         | 37.5         | 2,222              | 3,100                   | 4,200          | 246                        |
| <input type="checkbox"/> GPM-RF 3×95 + 3G16  | 3×95 + 3G16             | 39.0         | 42.0         | 2,814              | 3,750                   | 5,700          | 298                        |
| <input type="checkbox"/> GPM-RF 3×120 + 3G25 | 3×120 + 3G25            | 44.0         | 47.0         | 3,570              | 4,900                   | 7,200          | 346                        |
| <input type="checkbox"/> GPM-RF 3×150 + 3G25 | 3×150 + 3G25            | 49.0         | 52.5         | 4,380              | 5,900                   | 9,000          | 395                        |
| <input type="checkbox"/> GPM-RF 3×185 + 3G35 | 3×185 + 3G35            | 54.4         | 58.8         | 6,750              | 7,400                   | 11,100         | 450                        |

– Current ratings apply at 30 °C ambient in free air before reel layer derating.

## Resistance & voltage drop

17 sizes

| Cores × mm <sup>2</sup> | Max. DC resistance at 20 °C<br>Ω/km | Voltage drop (cos φ = 0.8)<br>V/A·km | Nominal current (30 °C)<br>A | Max. tensile load<br>N |
|-------------------------|-------------------------------------|--------------------------------------|------------------------------|------------------------|
| 7 G 2.5                 | 7.98                                | 14.00                                | 20                           | 350                    |
| 12 G 2.5                | 7.98                                | 14.00                                | 16                           | 600                    |
| 20 G 2.5                | 7.98                                | 14.00                                | 13                           | 1,000                  |
| 24 G 2.5                | 7.98                                | 14.00                                | 12                           | 1,200                  |
| 30 G 2.5                | 7.98                                | 14.00                                | 11                           | 1,500                  |
| 39 G 2.5                | 7.98                                | 14.00                                | 10                           | 1,950                  |

| Cores × mm <sup>2</sup> | Max. DC resistance at 20 °C<br>Ω/km | Voltage drop (cos φ = 0.8)<br>V/A·km | Nominal current (30 °C)<br>A | Max. tensile load<br>N |
|-------------------------|-------------------------------------|--------------------------------------|------------------------------|------------------------|
| 4 G 10                  | 1.91                                | 3.46                                 | 75                           | 800                    |
| 4 G 16                  | 1.21                                | 2.22                                 | 100                          | 1,280                  |
| 4 G 25                  | 0.78                                | 1.46                                 | 127                          | 2,000                  |
| 3×25 + 3G6              | 0.78                                | 1.46                                 | 127                          | 1,500                  |
| 3×35 + 3G6              | 0.55                                | 1.06                                 | 158                          | 2,100                  |
| 3×50 + 3G10             | 0.39                                | 0.76                                 | 192                          | 3,000                  |
| 3×70 + 3G16             | 0.27                                | 0.56                                 | 246                          | 4,200                  |
| 3×95 + 3G16             | 0.21                                | 0.44                                 | 298                          | 5,700                  |
| 3×120 + 3G25            | 0.16                                | 0.36                                 | 346                          | 7,200                  |
| 3×150 + 3G25            | 0.13                                | 0.31                                 | 395                          | 9,000                  |
| 3×185 + 3G35            | 0.11                                | 0.26                                 | 450                          | 11,100                 |

– Voltage drop values apply to three-phase operation at cos φ = 0.8.

## 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/gpm-rf-pur-reeling-cable



Typical values for this cable type, based on IEC 60502-1 / DIN VDE 0295. Values for your order are confirmed in the quotation. Subject to change without notice.  
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.