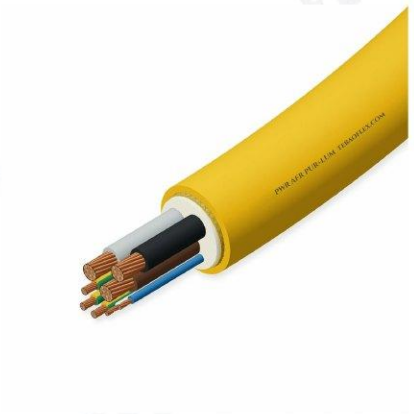
Photoluminescent & retroreflective PUR cable

PWR AFR PUR+LUM

0.6/1 kV Photoluminescent Power Cable

IEC 60502-1 / DIN VDE 0250 · 0.6/1 kV · −40…+90 °C high-visibility mobile trailing cable



0.6/1 kV Mobile | Glow + Reflective | Halogen-Free PUR

Application

PWR AFR PUR+LUM 0.6/1 kV halogen-free mobile trailing and reeling power cable featuring Class 5 copper phase, split PE and pilot cores with XLPE insulation, aramid reinforcement braid and a photoluminescent retroreflective yellow PUR sheath.

Typical uses: Tunnelling, TBM & Underground Civil Engineering, Open-Pit & Underground Mining Mobile Equipment, Port Quayside, Airport Apron & Night-Shift Operations, Emergency Power, Defence & Mobile Generator Fleets

Construction





Cross-section, not to scale

1	Main Power Cores (3x25 mm²)	IEC 60502-1 / EN 50525-2-21
2	Split PE Cores (3x6 mm²)	IEC 60502-1 / EN 50525-2-21
3	Pilot / Control Cores (2x1.0 mm²)	IEC 60502-1 / EN 50525-2-21
4	Aramid Reinforcement Braid	IEC 60502-1 / EN 50525-2-21
5	PUR+LUM High-Visibility Sheath	IEC 60502-1 / EN 50525-2-21

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (IEC 60502-1 / EN 50525-2-21)	**Core / conductor construction**	Main Power Cores (3x25 mm²) — Class 5 flexible plain annealed copper phase conductors with crosslinked polyethylene (XLPE) insulation
Primary dielectric / insulation	Split PE Cores (3x6 mm²) — Three symmetrical green/yellow XLPE-insulated protective earth conductors positioned in the outer interstices	**Continuous operating temperature**	−40…+90 °C (rated operating envelope)
Storage & transport temperature	−40…+80 °C on export drum or reel	**Outer protection / sheath**	PUR+LUM High-Visibility Sheath — Halogen-free yellow thermoplastic polyurethane (TMPU) outer sheath with integrated photoluminescent and retroreflective elements
Minimum bending radius	6–10 × OD	**Structural layer count**	5 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per IEC 60502-1 / EN 50525-2-21	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	IEC 60502-1 / EN 50525-2-21		

Sizes

4 standard constructions

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

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Weight ≈ kg/km	Tensile load kN ≈	Min. bend R mm
PWR AFR PUR+LUM Construction Schedule (−40…+90 °C) 4 sizes						
☐ **PWR AFR PUR+LUM 3×16+3×4+2×1.0**	3×16 + 3×4 + 2×1.0 mm²	Class 5 Cu + aramid braid	24.5	980	4.5	150
☐ **PWR AFR PUR+LUM 3×25+3×6+2×1.0**	3×25 + 3×6 + 2×1.0 mm²	Class 5 Cu + aramid braid	28.2	1,390	6.5	170
☐ **PWR AFR PUR+LUM 3×35+3×6+2×1.0**	3×35 + 3×6 + 2×1.0 mm²	Class 5 Cu + aramid braid	31.4	1,780	8.5	190
☐ **PWR AFR PUR+LUM 3×50+3×10+2×1.5**	3×50 + 3×10 + 2×1.5 mm²	Class 5 Cu + aramid braid	35.8	2,420	11.5	215

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per IEC 60502-1 / EN 50525-2-21.

Electrical, optical & thermal parameters

4 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
3×16 + 3×4 + 2×1.0 mm²	1.21	0.6/1 kV / 98 A	−40…+90 °C
3×25 + 3×6 + 2×1.0 mm²	0.78	0.6/1 kV / 131 A	−40…+90 °C
3×35 + 3×6 + 2×1.0 mm²	0.55	0.6/1 kV / 162 A	−40…+90 °C
3×50 + 3×10 + 2×1.5 mm²	0.39	0.6/1 kV / 202 A	−40…+90 °C

– Every production length undergoes routine conductor DC resistance, high-voltage dielectric and dimensional verification.

Standards and approvals

- IEC 60502-1 Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

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/pwr-afr-pur-lum-0-6-1kv-photoluminescent-retroreflective-power-cable

Typical values for this cable type, based on IEC 60502-1 / EN 50525-2-21. Values for your order are confirmed in the quotation. Subject to change without notice.
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