ETFE/EPR/EVA spring-reeling cable

(N)7YRDGOEU-J

0.6/1 kV ETFE/EPR/EVA Spring-Reeling Cable

DIN VDE 0250-814 · 0.6/1 kV · −40…+90 °C compact spring-reel power & control cable

0.6/1 kV **ETFE / EVA** **Spring Reel Duty**



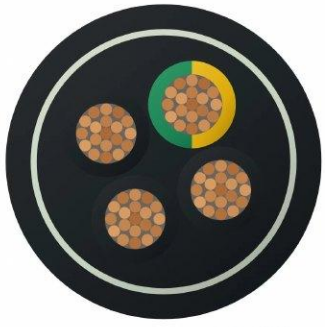
Application

(N)7YRDGOEU-J 0.6/1 kV compact spring-reeling power and control cable combining extra-fine Class FS copper conductors, thin-wall ETFE core insulation, EPR inner sheath, anti-torsion braid and a crosslinked EVA outer sheath.

Typical uses: Port Cranes, RTGs & Container Handling, Compact Spring-Operated Cable Reels, Steelworks, Foundries & Heavy Hoists, Automated Material Handling & Transfer Cars

Construction





Cross-section, not to scale

1	Extra-Fine Conductors (4G4 mm²)	DIN VDE 0250-814 / IEC 60228
2	ETFE Core Insulation (7Y)	DIN VDE 0250-814 / IEC 60228
3	Inner Elastomeric Sheath	DIN VDE 0250-814 / IEC 60228
4	Anti-Torsion Braid	DIN VDE 0250-814 / IEC 60228
5	EVA Outer Sheath	DIN VDE 0250-814 / IEC 60228

Technical data

Typical values

Rated voltage / transmission duty	0.6/1 kV (DIN VDE 0250-814 / IEC 60228)	**Core / conductor construction**	Extra-Fine Conductors (4G4 mm²) — Class FS extra-finely stranded plain annealed copper conductors engineered for compact spring-operated reeling drums
Primary dielectric / insulation	ETFE Core Insulation (7Y) — High-strength extruded ethylene tetrafluoroethylene (ETFE) fluoropolymer core insulation (numbered black cores + green/yellow PE)	**Continuous operating temperature**	−40…+90 °C (rated operating envelope)
Storage & transport temperature	−40…+80 °C on export drum or reel	**Outer protection / sheath**	EVA Outer Sheath — Heavy-duty crosslinked ethylene vinyl acetate (EVA) outer jacket resistant to oil, ozone, UV, and mechanical abrasion
Minimum bending radius	6–10 × OD	**Structural layer count**	5 concentric functional layers
Environmental & chemical resistance	Industrial moisture, oils and mechanical wear per DIN VDE 0250-814 / IEC 60228	**RoHS & REACH compliance**	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant
Standards	DIN VDE 0250-814 / IEC 60228		

Sizes

5 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
(N)7YRDGOEU-J Construction Schedule (−40…+90 °C) 5 sizes						
☐ **(N)7YRDGOEU-J 4G2.5**	**4G2.5 mm²**	**Class FS extra-fine Cu**	**11.2**	**195**	**1.2**	**70**
☐ **(N)7YRDGOEU-J 4G4**	**4G4 mm²**	**Class FS extra-fine Cu**	**12.8**	**265**	**1.9**	**80**
☐ **(N)7YRDGOEU-J 4G6**	**4G6 mm²**	**Class FS extra-fine Cu**	**14.4**	**355**	**2.8**	**90**
☐ **(N)7YRDGOEU-J 7G2.5**	**7G2.5 mm²**	**Class FS extra-fine Cu**	**14.1**	**310**	**2.1**	**85**
☐ **(N)7YRDGOEU-J 12G1.5**	**12G1.5 mm²**	**Class FS extra-fine Cu**	**15.6**	**365**	**2.2**	**95**

– Custom core counts, cross-sections, sheath colours and factory-tested cut lengths available per DIN VDE 0250-814 / IEC 60228.

Electrical, optical & thermal parameters

5 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Capacity	Operating temp.
4G2.5 mm²	**7.98**	**0.6/1 kV / 26 A**	**−40…+90 °C**
4G4 mm²	**4.95**	**0.6/1 kV / 34 A**	**−40…+90 °C**
4G6 mm²	**3.30**	**0.6/1 kV / 44 A**	**−40…+90 °C**
7G2.5 mm²	**7.98**	**0.6/1 kV / 20 A**	**−40…+90 °C**
12G1.5 mm²	**13.30**	**0.6/1 kV / 13 A**	**−40…+90 °C**

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

Standards and approvals

- VDE 0250-814 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/n-7yrdgoeu-j-0-6-1kv-etfe-epr-eva-spring-reeling-cable

Typical values for this cable type, based on DIN VDE 0250-814 / 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.