



power connection cable series

RG7OZR

Three-Core Armoured HEPR Power Cable

CEI 20-13 / 20-14 0.6/1 kV & 1.8/3 kV +90/+105 °C G7 HEPR steel-armoured cable



CEI 20-13 / 20-14 RG7OZR

0.6/1 kV & 1.8/3 kV SWA Armoured

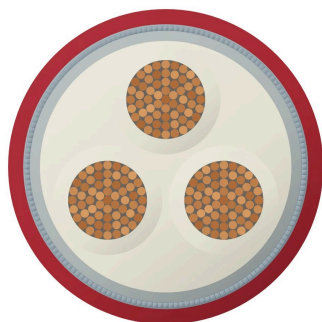
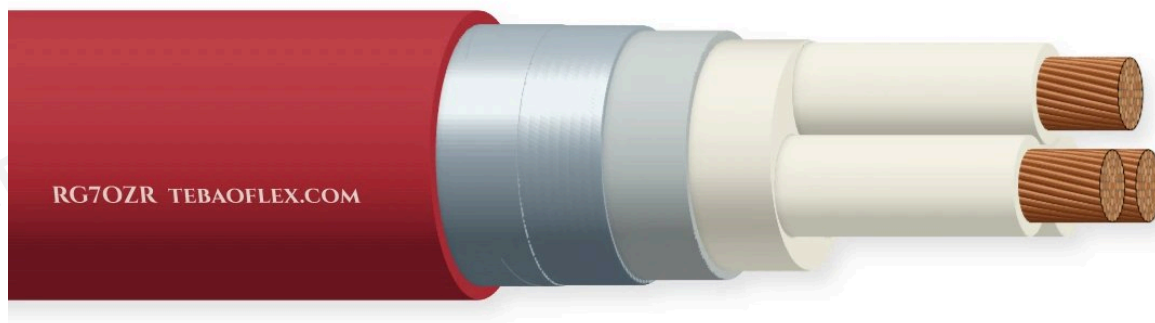
G7 HEPR + Steel Wire Armour

Application

RG7OZR Three-Core (and Multi-Core) Armoured HEPR Power Cable (0.6/1 kV & 1.8/3 kV; 1.5 mm² to 240 mm²) manufactured to Italian standards CEI 20-13 / CEI 20-14, CEI UNEL 35377 and IEC 60502-1—combining Class 5 flexible or Class 2.

Typical uses: Refineries, LNG Terminals & Petrochemical Plants (ATEX), Direct-Buried Industrial & Infrastructure Power Feeders, Steel Mills, Cement Kilns & Quarrying Conveyors, Water Treatment, Pumping Stations & Dam Galleries, 1.8/3 kV Industrial Motor & Auxiliary Transformer Feeds

Construction



Cross-section, not to scale

- 1 3 (or 3G / 4G / 5G) × Annealed red copper conductors ('R')
- 2 G7 High-Modulus HEPR elastomer core insulation
- 3 Extruded flame-retardant inner bedding sheath ('O')
- 4 Galvanized round steel wire armour ('Z' = Filo d'acciaio)
- 5 Flame-retardant PVC outer sheath ('R', Type Rz)

Technical data

Typical values

Rated voltage (Uo/U)	0.6 / 1 kV AC (CEI UNEL 35377) · 1.8 / 3 kV AC (CEI 20-13)
Max. DC resistance @ 20 °C	1.91 Ω/km (10) · 1.21 Ω/km (16) · 0.387 Ω/km (50) · 0.193 Ω/km (95)
Continuous conductor temp.	+90 °C (0.6/1 kV UNEL 35377) / +105 °C (G7 compound rating)
Ambient temperature range	-15 °C to +80 °C (fixed) · 0 °C to +50 °C (during laying)
Min. bend radius	12 × overall cable OD
Bunched flame propagation	CEI 20-22 II & IEC 60332-3-22 Cat A vertical tray fire test
Rodent & termite barrier	Concentric steel wire armour provides 100 % rodent immunity

Routine AC test voltage	4,000 V AC (0.6/1 kV) · 6,500 V AC (1.8/3 kV) for 5 minutes
Insulation resistance	Ki ≥ 5,000 MΩ·km at 20 °C
Short-circuit temperature	+250 °C (max. 5 s)
Steel wire armour ('Z')	Galvanized round steel wires (≥ 90 % coverage) with 350–500 N/mm² tensile
Impact & crush resistance	Passes IEC 60502-1 heavy mechanical impact and direct-burial crush
Reduced halogen emission	CEI 20-37 / EN 60754-1: ≤ 18 % HCl
Standards	CEI 20-13 · CEI 20-14 · CEI UNEL 35377 · IEC 60502-1

Sizes

6 standard constructions

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

CEI designation	Conductors & SWA wire	Outer Ø ≈ mm	Weight ≈ kg/km	Air 30°C A	Buried 20°C A
0.6/1 kV RG7OZR Three-Core Steel-Wire-Armoured Cables 6 sizes					
☐ RG7OZR 3×6 mm² 0.6/1kV	3 × 6 mm² Cu + 0.9 mm SWA	16.8	540	54	62
☐ RG7OZR 3×16 mm² 0.6/1kV	3 × 16 mm² Cu + 1.25 mm SWA	21.8	1,060	100	107
☐ RG7OZR 3×35 mm² 0.6/1kV	3 × 35 mm² Cu + 1.6 mm SWA	27.6	1,980	162	162
☐ RG7OZR 3×70 mm² 0.6/1kV	3 × 70 mm² Cu + 1.6 mm SWA	34.8	3,380	250	236
☐ RG7OZR 3×120 mm² 0.6/1kV	3 × 120 mm² Cu + 2.0 mm SWA	43.2	5,490	352	318
☐ RG7OZR 3×185 mm² 0.6/1kV	3 × 185 mm² Cu + 2.5 mm SWA	52.0	8,240	456	398

– Also available in 3G (with GNYE), 4×, 4G, 5G and 1.8/3 kV configurations.

Standards and approvals

- ✓ CEI 20-13 & CEI 20-14
- ✓ CEI UNEL 35377 & IEC 60502-1
- ✓ CEI 20-22 II Cat A Flame

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/rg7ozr-three-core-armoured-hepr-power-cable



Typical values for this cable type, based on CEI 20-13 / CEI 20-14 / IEC 60502-1 / CEI UNEL 35377. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.