



CEI 20-13 UG7OG7KNR/RG7OG7KNR cable

UG7OG7KNR / RG7OG7KNR

HEPR-Insulated Screen-Armoured Industrial

Italian CEI 20-13 0.6/1 kV HEPR (G7) copper screen-armoured (K) neoprene (NR) power



CEI 20-13 & CEI 20-22 II

UG7OG7KNR (Cl. 2) & RG7OG7KNR (Cl. 5)

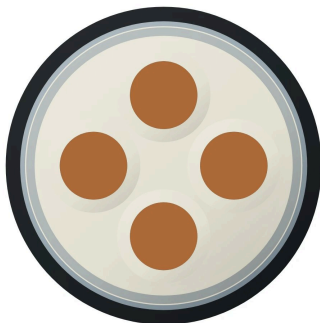
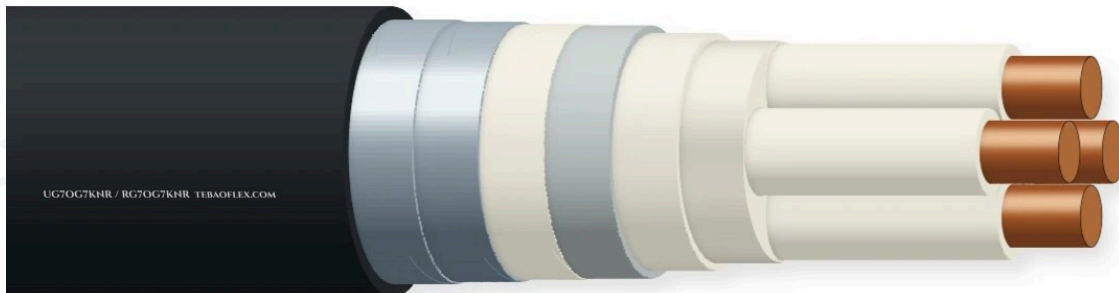
0.6/1 kV · HEPR (G7) + Cu Screen + NR

Application

Heavy-duty Italian petrochemical, refinery and industrial power cable (UG7OG7KNR with Class 2 copper / RG7OG7KNR with flexible Class 5 copper) built to CEI 20-13 with +90 °C High-Modulus EPR (G7 / HEPR) insulation, elastomeric inner sheath, concentric.

Typical uses: Oil Refineries, LNG Terminals & Petrochemical Plants, ATEX Hazardous Area Zone 1 & Zone 2 Power Distribution, Steel Mills, Cement Plants & Heavy Manufacturing, VFD Motor Feeders in Corrosive/Oily Environments

Construction



Cross-section, not to scale

- 1 Stranded (U = Class 2) or Flexible (R = Class 5)
- 2 High-Modulus Ethylene Propylene Rubber (G7 / HEPR)
- 3 Extruded elastomeric inner sheath (OG7)
- 4 Concentric copper wire / braid screen-armour (K)
- 5 Polychloroprene / Neoprene outer sheath (NR)

Technical data

Typical values

Rated voltage (U_0/U)	0.6/1 kV AC ($U_{max} = 1.2$ kV AC / 1.5 kV DC)	Routine AC dielectric test voltage	3.5 kV AC rms for 5 minutes + IR ≥ 500 M Ω ·km
Max. conductor DC resistance @ 20 °C	Per CEI EN 60228 Class 2 (U) or Class 5 (R)	Operating temperature range	-25 °C (-35 °C fixed) to +90 °C conductor · +250 °C short-circuit (5 s)
Thermal cycling & overload stability	Verified thermal ageing and short-circuit withstand per standard	Minimum bending radius	10 × OD (RG7OG7KNR Class 5) · 12 × OD (UG7OG7KNR Class 2)
Installation & mechanical integrity	Engineered for industrial pulling, routing and support cleat loads	Bunched vertical flame retardance	CEI 20-22 II & IEC 60332-3-22 Cat A non-fire-propagating
Oil, hydrocarbon & chemical resistance	Polychloroprene (NR) jacket resists mineral oils, diesel, acids & ozone	Standards	CEI 20-13, CEI UNEL 35375, CEI 20-22 II & IEC 60502-1

Sizes

9 standard constructions

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

Order designation	Phase / Screen	Voltage	Outer $\varnothing \approx$ mm	Copper kg/km	Weight $\approx$ kg/km	In air 30 °C A	Min. bend R mm
RG7OG7KNR — Class 5 Flexible Copper HEPR Screen-Armoured Neoprene Cables 6 sizes							
☐ RG7OG7KNR 3×2.5/2.5 mm ²	3×2.5 / 2.5 mm ²	0.6/1 kV	14.8	96	310	32	148
☐ RG7OG7KNR 3×6/6 mm ²	3×6 / 6 mm ²	0.6/1 kV	18.2	230	515	54	182
☐ RG7OG7KNR 3×16/10 mm ²	3×16 / 10 mm ²	0.6/1 kV	23.8	557	980	98	238
☐ RG7OG7KNR 3×35/16 mm ²	3×35 / 16 mm ²	0.6/1 kV	30.2	1,162	1,740	158	302
☐ RG7OG7KNR 3×70/35 mm ²	3×70 / 35 mm ²	0.6/1 kV	38.6	2,352	3,190	240	386
☐ RG7OG7KNR 3×120/70 mm ²	3×120 / 70 mm ²	0.6/1 kV	47.5	4,128	5,180	340	475
UG7OG7KNR — Class 2 Stranded Copper HEPR Screen-Armoured Neoprene Cables 3 sizes							
☐ UG7OG7KNR 4×10/10 mm ²	4×10 / 10 mm ²	0.6/1 kV	22.4	480	890	72	224
☐ UG7OG7KNR 4×50/25 mm ²	4×50 / 25 mm ²	0.6/1 kV	36.8	2,160	3,120	185	368
☐ UG7OG7KNR 4×95/50 mm ²	4×95 / 50 mm ²	0.6/1 kV	46.2	4,128	5,420	280	462

– Full range covers 1 to 24 cores from 1.5 mm² to 240 mm² in both UG7OG7KNR and RG7OG7KNR.

Standards and approvals

- ✓ CEI 20-13 & CEI UNEL 35375 Compliant
- ✓ CEI 20-22 II / IEC 60332-3-22 Cat A Flame Retardant
- ✓ ATEX Zone 1 / Zone 2 (EN 60079-14) Suitable

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/ug7og7knr-rg7og7knr-hepr-insulated-screen-armoured-industrial-power-cable



Typical values for this cable type, based on CEI 20-13 / CEI UNEL 35375 / CEI 20-22 II / IEC 60502-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.