



GOST KGE / KGESh screened mining & excavator cables

KGESh

Screened Mine Excavator and Underground Trailing Cable

GOST 24334 380/660 V & 660/1140 V screened underground mine & roadheader trailing cable



GOST 24334

380/660 V · 660/1140 V

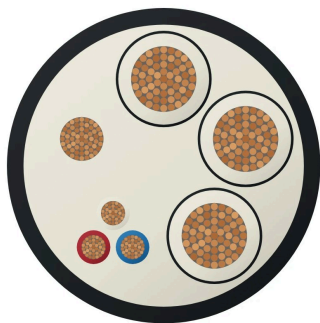
Phase & Control Screened (КГЭШ)

Application

KGESh (КГЭШ) is the workhorse GOST 24334 380/660 V and 660/1140 V screened flexible rubber trailing cable for underground coal mines, roadheaders, drilling rigs, and loading machines, featuring individual semi-conductive elastomeric screens over every

Typical uses: Underground coal & ore mines, Roadheaders & gallery loaders, Underground drilling & bolting rigs, Gate-end starter interconnect

Construction



Cross-section, not to scale

1	Phase, earth & control conductors	GOST 22483 Class 5
2	Semi-conductive centre cradle	GOST 24334
3	Core insulation	GOST 24334
4	Individual core screens (Э)	GOST 24334
5	Flame-retardant mine sheath (Ш)	GOST 24334

Technical data

Typical values

Rated voltage U ₀ /U	660/1140 V (0.66/1.14 kV) & 380/660 V AC	AC routine test voltage	3.5 kV rms (1140 V) · 2.5 kV rms (660 V)
Specific volume resistance of	≤ 300 Ω·cm per GOST 24334	Insulation resistance @ 20 °C	≥ 50 MΩ·km
Max. conductor operating temp.	+75 °C (+90 °C with EPR insulation)	Max. short-circuit temperature	+200 °C / +250 °C (5 s)
Ambient temperature range	-30 °C to +50 °C	Min. bending radius	5 × cable outer diameter
Max. tensile load on copper	19.6 N/mm ² (2.0 kgf/mm ²)	Torsional flexibility	±180°/m without screen cracking
Flame retardancy	GOST IEC 60332-1-2 underground mine flame	Oil & mine water resistance	GOST 24334 RShN-1 polychloroprene
Cold bend resilience	Tested down to -30 °C (-50 °C in HL)	Standards	GOST 24334 (КГЭШ)

Sizes

10 standard constructions

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

Order designation	Configuration	Phase size mm ²	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard KGESh configurations 10 sizes						
☐ KGESh 3×4+1×4+1×2.5 - 660 V	3×4 + 1×4E + 1×2.5 (660 V)	4	20.5	178	540	102
☐ KGESh 3×6+1×6+1×2.5 - 660 V	3×6 + 1×6E + 1×2.5 (660 V)	6	22.4	255	660	112
☐ KGESh 3×10+1×10+3×2.5 - 1140 V	3×10 + 1×10E + 3×2.5 (1140 V)	10	28.5	455	1,080	142
☐ KGESh 3×16+1×10+3×2.5 - 1140 V	3×16 + 1×10E + 3×2.5 (1140 V)	16	31.8	630	1,360	159
☐ KGESh 3×25+1×10+3×2.5 - 1140 V	3×25 + 1×10E + 3×2.5 (1140 V)	25	35.5	890	1,750	178
☐ KGESh 3×35+1×10+3×2.5 - 1140 V	3×35 + 1×10E + 3×2.5 (1140 V)	35	38.8	1,180	2,180	194
☐ KGESh 3×50+1×16+3×2.5 - 1140 V	3×50 + 1×16E + 3×2.5 (1140 V)	50	43.2	1,670	2,820	216
☐ KGESh 3×70+1×25+3×2.5 - 1140 V	3×70 + 1×25E + 3×2.5 (1140 V)	70	48.5	2,330	3,680	242
☐ KGESh 3×95+1×35+3×2.5 - 1140 V	3×95 + 1×35E + 3×2.5 (1140 V)	95	53.8	3,160	4,720	269
☐ KGESh 3×120+1×35+3×2.5 - 1140 V	3×120 + 1×35E + 3×2.5 (1140 V)	120	58.2	3,880	5,640	291

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per GOST 24334 / TU 16.K73.05 (КГЭШ).

Electrical & ampacity data

10 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Current rating in air (A)	Current rating installed (A)	Mutual C pF/m≈	AC test V _{rms}
3×4 + 1×4E + 1×2.5 (660 V)	5.074	40	34	117	3,500
3×6 + 1×6E + 1×2.5 (660 V)	3.382	51	43	120	3,500
3×10 + 1×10E + 3×2.5 (1140 V)	1.958	70	60	126	3,500
3×16 + 1×10E + 3×2.5 (1140 V)	1.240	93	79	136	3,500
3×25 + 1×10E + 3×2.5 (1140 V)	0.799	122	104	151	3,500
3×35 + 1×10E + 3×2.5 (1140 V)	0.568	150	128	168	3,500
3×50 + 1×16E + 3×2.5 (1140 V)	0.396	187	159	192	3,500
3×70 + 1×25E + 3×2.5 (1140 V)	0.279	229	195	226	3,500
3×95 + 1×35E + 3×2.5 (1140 V)	0.211	276	235	267	3,500
3×120 + 1×35E + 3×2.5 (1140 V)	0.165	319	271	308	3,500

– Current ratings apply at +30 °C ambient in free air; apply standard derating factors for elevated ambient or drum layers.

Standards and approvals

- ✓ GOST 24334
- ✓ TU 16.K73.05
- ✓ EN 10204 3.1

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

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Email

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Web

tebaoflex.com/cables/kgesh-screened-mine-excavator-and-underground-trailing-cable



Typical values for this cable type, based on GOST 24334 / TU 16.K73.05 (КГЭШ). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.