FEICHUN SPECIAL CABLES · 安徽飞纯特种电缆有限公司

Technical Data Sheet — GB (Chinese National Standard) Execution ZA-YJV 8.7/10 kV & ZA-KVVP 450/750 V

中国国标型号技术规格书 · 已核对 EAC 证书覆盖范围

Prepared for **Tansu Construction LLP**, Republic of Kazakhstan · 13-item project schedule, total 23,650 m

Option A of quotation FC-QT-2026-TSK4A1-R1

GB/T 12706.2-2020 | GB/T 9330-2020 | GB/T 19666-2019 · Class A | EAC No. ЕАЭС KG417/052.CN.02.15390 | ГОСТ 31565-2012 fire package

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1. EAC certificate cross-check



ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ

СЕРТИФИКАТ СООТВЕТСТВИЯ

EAC

№ ЕАЭС KG417/052.CN.02.15390
Серия KG № 0235951

ОРГАН ПО СЕРТИФИКАЦИИ Общество с ограниченной ответственностью "Центр Сертификации Аурум"
Аттестат аккредитации № KG417/КЦА.ОСП.052
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ИЗГОТОВИТЕЛЬ Anhui Feichun Special Cable Co., Ltd.
Место нахождения и адрес места осуществления деятельности по изготовлению продукции: Китай, Inside a Economic and Technological Development Zones private science park in Hefei, Anhui .China

ПРОДУКЦИЯ Кабель питания, марки Feichun: (согласно приложениям бланки №№0221894, 0221895, 0221896, 0221897, 0221898, 0221899, 0221900, 0221901, 0221902, 0221903, 0221904).
Серийный выпуск

КОД ТНВЭД ЕАЭС 8544499108

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ
Технического регламента Таможенного союза "О безопасности низковольтного оборудования" (ТР ТС 004/2011)

СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ протокола испытаний № ПР-14195/ЭЛ от 23.10.2025 года, выданного Испытательной лабораторией ТОО "Элесар", уникальный номер записи об аккредитации в реестре аккредитованных лиц KZ.T.02.2418 от 09.02.2021
Акта анализа состояния производства №13740-СС/10-2025 от 03.10.2025, выданного ОС ОсОО "Центр Сертификации Аурум"

1. EAC 证书型号覆盖核对

★ Certificate of Conformity — Eurasian Economic Union

Issued to Anhui Feichun Special Cable Co., Ltd. under the Technical Regulation of the Customs Union "On the safety of low-voltage equipment" (TP TC 004/2011). Every GB type offered in this data sheet has been checked line by line against the model schedules attached to this certificate.

CERTIFICATE NO. **ЕАЭС KG417/052.CN.02.15390**	SERIES / BLANK **KG № 0235951**
VALID **24.10.2025 — 23.10.2030**	CERTIFICATION BODY **Центр Сертификации Аурум, Bishkek (KG417/КЦА.ОСП.052)**
SCHEME **1c (serial production)**	HS CODE **8544 4991 08**
TEST REPORT **ПР-14195/ЭЛ dated 23.10.2025, ТОО «Элесар»**	REFERENCED STANDARDS **ГОСТ 31996-2012, ГОСТ 31565-2012**

Table 1 — Type-by-type check against the certificate annexes (blanks 0221894 – 0221904)

Enquiry item	GB type offered	Listed in the EAC annex?	Where it appears
MV power cable, items 1–3	**ZA-YJV**	**Yes**	Annex blank 0221900, alongside ZA-YJV22, ZA-YJY and ZA-KYJY22
Control cable, items 4–13	**ZA-KVVP** tinned copper braid screen, class A flame retardant	**Yes**	Annex blank 0221900, in the ZA-KVV / ZA-KVVP group of flame-retardant control cables

Screen execution. ZA-KVVP carries a tinned copper braid screen with coverage of at least 80 %. The client's enquiry describes a copper foil screen; a braid gives equal or better screening at control-circuit frequencies, terminates more easily at the gland, and is the execution named in our EAC certificate. If the project documentation insists on a foil or tape screen, the GOST execution КВВГЭнг(A)-LS (Option B of the quotation) is the route to take.

Important — scope limit of this certificate. ТР ТС 004/2011 covers low-voltage equipment only (up to 1 000 V AC). It therefore certifies the 450/750 V control cables directly, but it does **not** extend to the 8.7/10 kV medium-voltage cables even though ZA-YJV is named in the annex. Medium-voltage cables above 1 kV fall outside the low-voltage regulation; for the Kazakh acceptance commission they are normally covered by a separate voluntary GOST certificate or by the ГОСТ Р 55025 test protocols. Please confirm with the client what evidence the project requires for the 10 kV items before shipment, and do not present this certificate as covering them.

2. Scope of supply

2. 供货清单

Table 2 — GB types offered against the client's GOST-designated enquiry

Item	GB type offered	GOST type in the enquiry	Rated voltage	Unit	Quantity
1	**ZA-YJV 8.7/10 kV 1×500** Cu screen 95 mm²	ПвВнг(А)-LS 1×500/95-10	8.7/10 (12) kV	m	1 800
2	**ZA-YJV 8.7/10 kV 1×400** Cu screen 95 mm²	ПвВнг(А)-LS 1×400/95-10	8.7/10 (12) kV	m	900
3	**ZA-YJV 8.7/10 kV 1×300** Cu screen 70 mm²	ПвВнг(А)-LS 1×300/70-10	8.7/10 (12) kV	m	2 295
4	**ZA-KVVP 10×4**	КВВГЭнг(А)-LS 10×4	450/750 V	m	710
5	**ZA-KVVP 5×4**	КВВГЭнг(А)-LS 5×4	450/750 V	m	7 275
6	**ZA-KVVP 10×2.5**	КВВГЭнг(А)-LS 10×2,5	450/750 V	m	320
7	**ZA-KVVP 5×2.5**	КВВГЭнг(А)-LS 5×2,5	450/750 V	m	1 360
8	**ZA-KVVP 27×1.5**	КВВГЭнг(А)-LS 27×1,5	450/750 V	m	1 190
9	**ZA-KVVP 19×1.5**	КВВГЭнг(А)-LS 19×1,5	450/750 V	m	675
10	**ZA-KVVP 14×1.5**	КВВГЭнг(А)-LS 14×1,5	450/750 V	m	3 585
11	**ZA-KVVP 10×1.5**	КВВГЭнг(А)-LS 10×1,5	450/750 V	m	510
12	**ZA-KVVP 5×1.5**	КВВГЭнг(А)-LS 5×1,5	450/750 V	m	2 550
13	**ZA-KVVP 4×1.5**	КВВГЭнг(А)-LS 4×1,5	450/750 V	m	480

Designation key / 型号说明. ZA = flame retardant class A（阻燃A类）to GB/T 19666-2019 · YJ = XLPE insulation（交联聚乙烯绝缘）· V = PVC sheath（聚氯乙烯护套）· K = control cable（控制电缆）· P = braid screen（编织屏蔽）.

3. ZA-YJV 8.7/10 kV — construction and ratings

3. ZA-YJV 8.7/10 kV 中压电缆结构与参数

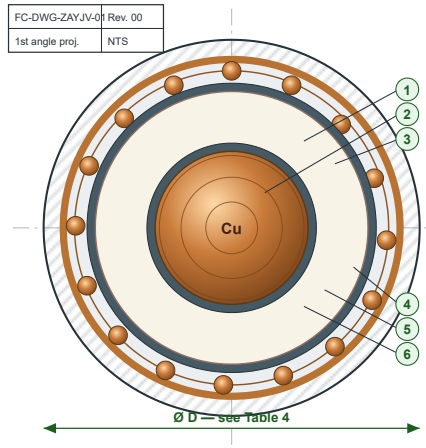


Figure 1 — ZA-YJV 8.7/10 kV single-core cross-section (not to scale)

Table 3 — Element legend, Figure 1

Pos.	Element	Material / specification
1	Conductor	Stranded compacted round copper, class 2 to GB/T 3956-2008 / IEC 60228
2	Conductor screen	Extruded semiconducting compound
3	Insulation	Peroxide-cured XLPE, dry-cure CCV line, to GB/T 12706.2-2020
4	Metallic screen	Concentric annealed copper wires, 70 mm² or 95 mm² as specified, over a strippable semiconducting insulation screen
5	Binding tape	Copper tape helically applied over the wire screen
6	Outer sheath	Flame-retardant class A PVC to GB/T 19666-2019, black with green stripe

Table 4 — Dimensions, mass and ratings (nominal, ±5 % manufacturing tolerance)

Type	Insulation thickness, mm	Sheath thickness, mm	Overall Ø, mm	Mass, kg/km	Cu content, kg/km	In air, A	In ground, A
ZA-YJV 1×500	4.5	2.6	47.0 ± 1.5	7 300	5 300	905	700
ZA-YJV 1×400	4.5	2.5	43.5 ± 1.4	6 100	4 340	800	625
ZA-YJV 1×300	4.5	2.4	40.0 ± 1.3	4 750	3 300	670	540

RATED VOLTAGE U_0/U (U_m)

8.7 / 10 (12) kV

covers the client's 6/10 kV duty

CONDUCTOR TEMPERATURE

+90 °C

130 °C emergency; 250 °C short-circuit

MINIMUM BENDING RADIUS

15 × D

7.5 × D at fixed final position

INSTALLATION TEMPERATURE

≥ 0 °C

GB base value; −15 °C achievable with the LS sheath compound

AMBIENT SERVICE RANGE

−40 °C … +50 °C

−50 °C compound available on request

SERVICE LIFE

30 years

warranty 5 years from commissioning

Note on insulation thickness. The GB 8.7/10 kV design carries 4.5 mm of XLPE against 3.4 mm for the GOST 6/10 kV design, because the GB grade has the higher phase-to-earth rating. The cable is therefore slightly larger in diameter and marginally heavier than the GOST equivalent — allow for this when sizing glands, cleats and duct fill.

4. ZA-KVVP 450/750 V — construction and ratings

4. ZA-KVVP 450/750 V 控制电缆结构与参数

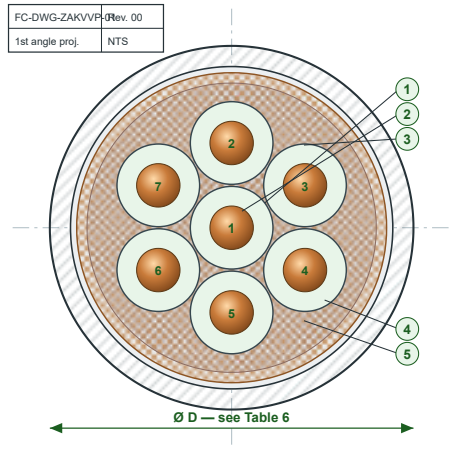


Figure 2 — ZA-KVVP cross-section, 7-core arrangement shown as representative (not to scale)

Table 5 — Element legend, Figure 2

Pos.	Element	Material / specification
1	Conductor	Plain annealed copper, solid class 1 (1.5–2.5 mm²) or stranded class 2 (4 mm²), GB/T 3956-2008
2	Insulation	Flame-retardant class A PVC, numbered core identification per GB/T 9330-2020
3	Laying-up and fillers	Concentric lay-up with flame-retardant fillers and binder tape
4	Screen	Tinned copper wire braid, coverage ≥ 80 %
5	Outer sheath	Flame-retardant class A PVC to GB/T 19666-2019, black

Table 6 — ZA-KVVP dimensions and mass (nominal)

Type	Conductor class	Insulation thickness, mm	Sheath thickness, mm	Overall Ø, mm	Mass, kg/km	Cu content, kg/km	Quantity, m
ZA-KVVP 10×4	2	0.8	1.8	20.2	800	425	710
ZA-KVVP 5×4	2	0.8	1.6	15.6	460	220	7 275
ZA-KVVP 10×2.5	1	0.7	1.7	17.6	580	272	320
ZA-KVVP 5×2.5	1	0.7	1.5	13.8	345	142	1 360
ZA-KVVP 27×1.5	1	0.6	1.9	21.1	830	430	1 190
ZA-KVVP 19×1.5	1	0.6	1.8	18.6	640	308	675
ZA-KVVP 14×1.5	1	0.6	1.7	16.9	510	230	3 585
ZA-KVVP 10×1.5	1	0.6	1.6	15.2	400	168	510
ZA-KVVP 5×1.5	1	0.6	1.4	12.1	245	88	2 550
ZA-KVVP 4×1.5	1	0.6	1.4	11.4	215	71	480

RATED VOLTAGE

450 / 750 V

covers the 660 V duty of the enquiry

TEST VOLTAGE

3.0 kV, 5 min

core/core and core/screen

INSULATION RESISTANCE

≥ 36.7 MΩ·km

at +20 °C, 1.5 mm² core

CONDUCTOR TEMPERATURE

+70 °C

160 °C short-circuit, 5 s

MINIMUM BENDING RADIUS

6 × D

screened design

SCREEN COVERAGE

≥ 80 %

tinned copper braid

Braid versus tape screen. Compared with a copper tape or foil screen, the braid adds roughly 0.5–0.7 mm to the overall diameter and 20–40 kg/km of copper, which is reflected in the dimensions above. Screening effectiveness at control-circuit frequencies is equal or better, and the braid is easier to terminate at the gland.

5. Fire performance and standards

5. 阻燃性能与标准

Table 7 — Fire test package for the ZA (flame retardant class A) execution

Property	Requirement	Test standard
Flame propagation, bunched cables, category A	Charred length within limit; 7 L/m of non-metallic material	GB/T 18380.33-2022 / IEC 60332-3-22; also verified to ГОСТ IEC 60332-3-22
Single vertical cable flame test	Self-extinguishing	GB/T 18380.12-2022
Fire-retardant classification	Class A (ZA)	GB/T 19666-2019
Smoke density (optional low-smoke grade)	Light transmittance ≥ 60 % for the WDZ grade	GB/T 17651.2-2021 / IEC 61034-2
Halogen acid gas (optional low-halogen grade)	HCl ≤ 100 mg/g for the standard PVC grade	GB/T 17650.1-2021

Difference the client must be told about. The standard ZA grade is a flame-retardant PVC, not a low-smoke low-halogen compound. The GOST нг(A)-LS execution the client enquired for additionally requires reduced smoke and gas emission (light transmittance ≥ 40 %, halogen ≤ 5 %). If the project genuinely requires the LS property, either the GOST execution (Option B) must be taken, or the GB type must be upgraded to the low-smoke grade — designation **WDZA-YJY** / **WDZ-KYJYP**, which changes the price. Do not present plain ZA as equivalent to нг(A)-LS.

Table 8 — Governing standards and conformity documents

Type	Product standard	Conductors	Conformity evidence
ZA-YJV 8.7/10 kV	GB/T 12706.2-2020	GB/T 3956-2008 class 2	Works test certificate per drum, including partial discharge and high-voltage withstand. See the scope note in Section 1 regarding EAC coverage above 1 kV.
ZA-KVVP 450/750 V	GB/T 9330-2020; flame retardance GB/T 19666-2019	GB/T 3956-2008 class 1 / 2	EAC certificate ЕАЭС KG417/052.CN.02.15390 under TP TC 004/2011, valid to 23.10.2030; works test certificate per drum

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Quality system. Manufactured under ISO 9001, ISO 14001 and ISO 45001. Each drum is routine-tested (conductor resistance, insulation resistance, voltage withstand, partial discharge for MV, dimensional check) with a test certificate cross-referenced to the drum number. Third-party witness inspection (SGS / BV / TÜV) can be arranged.

6. Marking, packing and delivery

6. 标志、包装与交货

Item	Provision
Sheath marking	Ink-jet or embossed, repeated every metre: manufacturer, GB type designation, cross-section, rated voltage, year, sequential metre marks. Russian-language marking can be added; the printed type designation remains the GB one.
Drum plate	English and Russian, with EAC mark for the certified control cables, drum number, length, gross and net mass.
Standard drum lengths	MV 500 m ± 5 %; control cable 500 m / 1 000 m. Cut lengths available at a cutting surcharge.
Packing	Non-returnable steel-reinforced wooden drums, ISPM-15 heat treated, ends sealed with heat-shrink caps, full timber battening.
Delivery terms	EXW Hefei, Incoterms® 2020 as quoted; FOB Shanghai, CIF Aktau or DAP Almaty on request.
Payment terms	T/T 50 % with order, 50 % before dispatch ex works.
Lead time	3–4 weeks from receipt of the advance payment and approved drawings.
Documentation	Commercial invoice, packing list, certificate of origin, works test certificates, EAC certificate copy (control cables), ISPM-15 statement.

Pricing note. Prices for these items are subject to fluctuation of the LME copper market and are re-confirmed at the time of order placement. Copper content per type is stated in Tables 4 and 6 to allow transparent recalculation. The braid screen of ZA-KVVP is included in the copper figures shown; control-cable prices are re-confirmed against LME at order placement.

7. Contact

7. 联系方式

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FeiChun Special Cables — Document FC-TDS-GB-2026-TSK4A2 · Rev. 01 · ZA-YJV 8.7/10 kV & ZA-KVVP 450/750 V · Tansu Construction LLP, Kazakhstan

Values given are nominal design values for a quotation-stage technical review. Final dimensions, masses and ratings are confirmed on the approved production drawing and works test certificate for each order. Current ratings are base values and must be corrected for the actual installation method, grouping, soil thermal resistivity and ambient temperature.

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