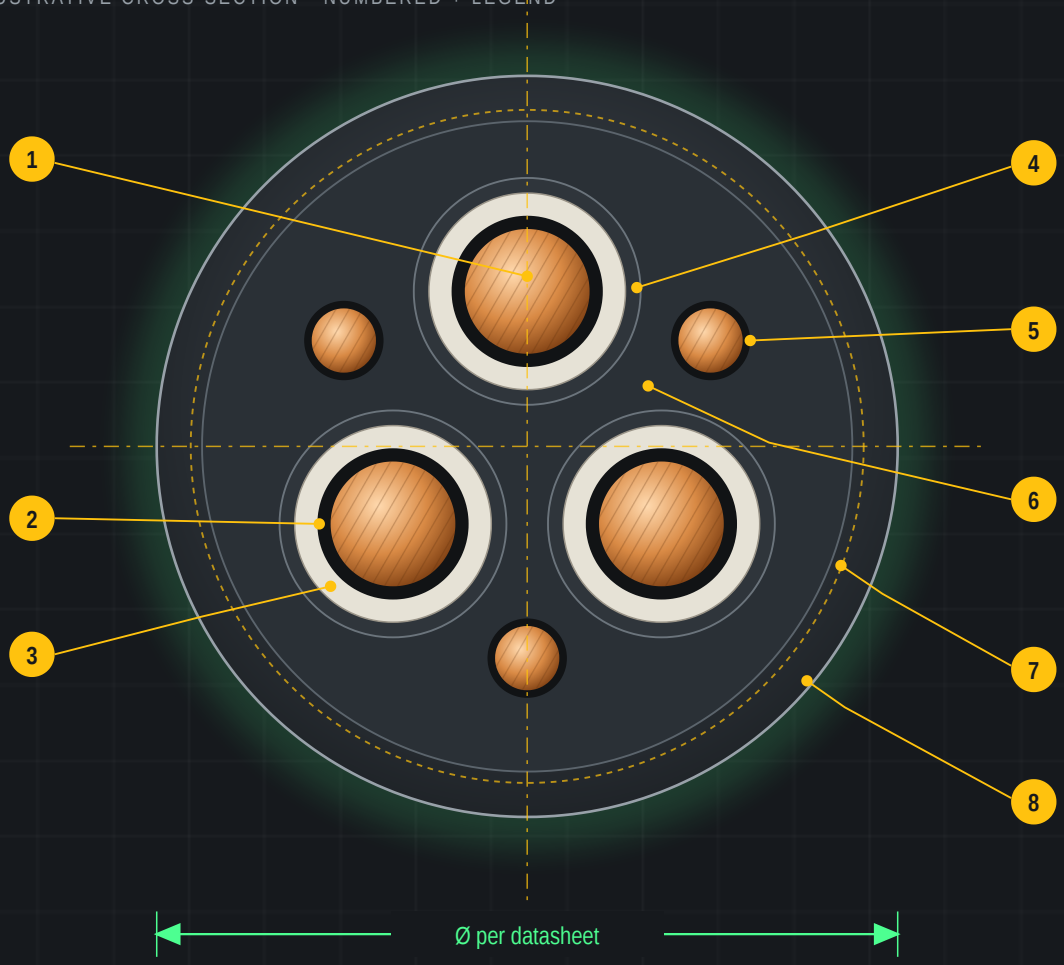
FIG. 01 · ILLUSTRATIVE CROSS-SECTION · NUMBERED + LEGEND



TECHNICAL DOCUMENTATION · CABLE DESIGN DRAWINGS · DIN VDE · AS/NZS

TENDER-READY DOCUMENTS AND CABLE DRAWINGS

Why FeiChun can give trading companies the more complete technical package: cable experts with 20+ years in the industry who know the local standards, DIN VDE and AS/NZS Type 241 reeling cable expertise, and a compliance reply within 24 hours of receiving your specification.

DOCUMENT FC-TDOC-TND-EN	EDITION 2026 · REV. 01	AUDIENCE TRADERS · TENDERS	COMPLIANCE REPLY WITHIN 24 HOURS
FOCUS TYPE 241 · VDE 0250	TEAM EXPERIENCE 20+ YEARS	MANUFACTURER ANHUI FEICHUN SPECIAL CABLE CO., LTD. · HEFEI COMPREHENSIVE BONDED ZONE, CHINA	

01 · WHY IT MATTERS

TENDERS ARE WON ON PAPER BEFORE THEY ARE WON ON PRICE

A trading company bidding for cables does not only sell a price. It must put a complete technical file in front of an evaluator who checks the standard, the construction, the drawings and the test evidence line by line. FeiChun is organised to supply that file – complete, consistent and fast, with a compliance reply within 24 hours of receiving your specification.

20+ YEARS
INDUSTRY EXPERIENCE OF THE LOCAL-STANDARD EXPERTS WE RECRUITED

DIN VDE
GERMAN STANDARDS KNOW-HOW

AS/NZS
AUSTRALIAN STANDARDS KNOW-HOW

24 HOURS
COMPLIANCE REPLY AFTER RECEIVING YOUR SPECIFICATION

THE TRADER'S PROBLEM

- **Incomplete files:** a bare catalogue page does not answer a clause-by-clause technical evaluation.
- **Missing drawings:** evaluators want a dimensioned, numbered cross-section, not a photo.
- **Standard mismatch:** the tender names a DIN VDE or AS/NZS clause and the supplier cannot map it.
- **Slow answers:** clarification rounds have deadlines; a slow supplier can lose the bid.

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WHAT A TENDER EVALUATOR CHECKS

technical bid review

STANDARD COMPLIANCE E-01
Does the cable meet the named standard and edition, clause by clause?

CONSTRUCTION DETAIL E-02
Conductor class, insulation, screens, sheaths, reinforcement, dimensions.

DRAWINGS E-03
A numbered cross-section with legend that matches the datasheet.

TEST EVIDENCE E-04
Routine and type test plan, sample reports, laboratory capability.

CERTIFICATES E-05
Valid certificates with number, issuer, validity and annex scope.

SUPPLIER IDENTITY E-06
Verifiable company data, address and manufacturing site.

Our aim: give the trading company every one of these six items in one coherent package, so the technical evaluation is a formality and the commercial discussion can start.

02 · TEAM AND STANDARDS

ENGINEERS WHO READ THE STANDARD, NOT JUST THE CATALOGUE

We recruited cable-industry experts who know the local cable standards from practice, with more than 20 years of experience in the industry. They work every day with two of the standard families that tenders quote most often: **DIN VDE** and the **Australian / New Zealand (AS/NZS)** standards, so requirements are mapped to a real construction quickly and correctly.

GERMAN SCHOOL · DIN VDE DE

Rubber-insulated heavy-duty flexible cables, harmonised flexible cables, conductor classes and current-carrying capacity. Typical for reeling, festoon, crane and mining cable tenders in Europe, the CIS, Latin America and the Middle East.

AUSTRALIAN SCHOOL · AS/NZS AU

Reeling and trailing cables for mining, with Type and Class constructions, pilot cores and detailed construction tables. Typical for mining tenders that follow Australian specifications.

STANDARD FAMILIES OUR TEAM WORKS WITH

reference by title

STANDARD	SCOPE	WHERE IT APPEARS	WHAT OUR TEAM SUPPLIES
DIN VDE 0250 series	Rubber-insulated cables and flexible cables	Reeling (cable-drum), trailing, crane, mining	Construction mapping and test requirements
DIN VDE 0282 / EN 50525	Cables up to 450/750 V, harmonised types	H07RN-F, H07VVH6-F and similar	Datasheet, drawing, compliance statement
DIN VDE 0295 / EN 60228	Conductors of insulated cables	All flexible and fixed cables	Conductor class and resistance data
DIN VDE 0298-4	Current-carrying capacity of cables	Rating tables in datasheets	Current rating data for installation cases
AS/NZS 1802:2018	Reeling and trailing cables, underground coal mining	Type 241 and other Types	Type-by-type construction review
AS/NZS 2802:2000	Reeling and trailing cables, mining and general use (other than underground coal)	Surface mining, general use	Class and pilot-core construction review
AS/NZS 5000.1	Polymeric insulated cables up to 0.6/1 kV	LV power cables	Construction and data comparison

HOW THE TEAM WORKS

- **Local-standard knowledge:** experts recruited for hands-on experience with the German and Australian cable standards, not for catalogue knowledge.
- **One engineering voice:** the engineers who review your specification are the engineers who prepare the drawing and the datasheet.
- **Clause-by-clause reading:** your tender text is compared with the standard and with our construction, and every difference is listed openly.
- **Edition awareness:** we ask which edition your contract refers to before we state compliance.

Important: a standard-compliant design is not the same thing as a third-party certificate. We always state which of the two applies. Certificates held are listed in section 04; certificate scope is defined by each annex. Standard titles are given for reference; the edition in your contract prevails.

03 · FOCUS PRODUCTS

TWO CABLE FAMILIES WE DOCUMENT IN DEPTH

Two requirements come up again and again in the tenders we support: **AS/NZS Type 241** cables and **DIN VDE 0250 reeling cables** (cable-drum cables). For both, our experts prepare the full technical file and send a compliance reply within 24 hours of receiving your specification.

AS/NZS · TYPE 241

AU

Type 241 belongs to AS/NZS 1802, the Australian / New Zealand standard for elastomer insulated and sheathed reeling and trailing cables used in underground coal mines. The standard sets the materials, construction, dimensions and tests per Type, and our experts read your tender against the edition you name.

DIN VDE 0250 · REELING CABLES

DE

Rubber-insulated heavy-duty flexible cables for cable reels and drums, such as NSHTÖU and (N)SHTÖU types and medium-voltage (N)TSCGEWÖU types, with or without fibre-optic elements. Typical use: cranes, stacker-reclaimers, container handling and mobile machines.

WHAT THE 24-HOUR COMPLIANCE REPLY COVERS

per cable family

ITEM	AS/NZS TYPE 241	DIN VDE 0250 REELING CABLE
Standard basis	AS/NZS 1802 (underground coal mining)	DIN VDE 0250 series
Construction check	Conductor, insulation, screens, sheaths and dimensions against the Type requirements	Conductor class, reinforcement, sheaths and dimensions against the standard and your specification
Drawing	Numbered cross-section with legend	Numbered cross-section with legend
Tests	Type-specific test requirements of the standard mapped into the test plan	Routine and type tests mapped into the test plan
Format	Clause by clause: comply, partly comply, deviate	Clause by clause: comply, partly comply, deviate
Certificates	Stated openly: covered by a certificate, or by FeiChun engineering review and in-house tests	CE (LVD) annex lists NSHTÖU and (N)TSCGEWÖU; EAC annex lists (N)TSCGEWÖU; scope per annex

HOW WE HANDLE THEM

- **Local-standard experts:** the engineers who answer were recruited for hands-on experience with Australian and German cable standards.
- **Edition first:** send the edition named in your tender; we state compliance for that edition only.
- **Deviations first:** where our construction differs from your text, the reply says so, in writing, before you submit.

TYPICAL APPLICATIONS

`Underground coal mining` `Cable reels and drums` `Port and crane equipment` `Stacker-reclaimers` `Container handling` `Mobile mining machines`

Notice: compliance statements come from FeiChun's engineering review and in-house tests unless a certificate is named. Certificates held are listed in section 04 and their scope is defined by each annex.

04 · DOCUMENTATION PACKAGE

TWELVE DOCUMENTS, ONE CONSISTENT FILE

A tender file fails when its documents contradict each other. FeiChun prepares the datasheet, drawing, compliance matrix and certificates as one set, from one engineering source, in the same numbering and the same units.

CODE	DOCUMENT	CONTENT	USE IN THE TENDER
D-01	**Technical data sheet (TDS)**	Construction, electrical and mechanical data, standards, with the numbered cross-section drawing	Core of every technical bid
D-02	**Cross-section drawing**	Numbered layers, legend, dimensions, core identification	Evaluator checks construction visually
D-03	**Construction specification**	Materials, conductor class, insulation, screens, sheaths, reinforcement	Proves match to the specified build
D-04	**Compliance matrix**	Your specification clause by clause: comply, partly comply, deviate, with comment	Fastest route through technical review
D-05	**Deviation and clarification list**	Open points raised early and answered in writing	Avoids disqualification surprises
D-06	**Test plan and sample reports**	Routine and type test plan, in-house laboratory results	Quality evidence for bid and award
D-07	**Certificate package**	CE (LVD), EAC, UKCA verification, CE ATEX documentation verification, with annex scope	Valid, citable approvals
D-08	**Drum, packing and marking sheet**	Drum sizes, lengths, marking, export packing	Logistics and customs files
D-09	**Company qualification pack**	Company name, addresses, credit code, registered capital, bonded-zone site	Supplier qualification
D-10	**Engineering reference handbook**	Reeling cable installation and electrical handbook, available in 8 language editions	Support for end user and installer
D-11	**Price clause note**	LME copper floating clause wording for bid pricing	Clear commercial basis
D-12	**Post-award submittal set**	Approved drawings, datasheets and test documents for the order	Smooth project documentation

FORMATS AND LANGUAGES

delivery

PDF datasheet | HTML datasheet | SVG drawing | EN | ES | RU | ZH | DOC ID on every file

TRACEABLE DOCUMENTS

ID

Every datasheet carries an automatic document ID and revision so the file you submit can be traced and updated cleanly.

YOUR LANGUAGE

LA

Documents can be prepared in English, Spanish, Russian and Chinese. Ask for another language and we will tell you what is possible.

Certificates held (scope per annex): CE (LVD 2014/35/EU, EN 50525-1) · EAC (TR CU 004/2011) · UKCA voluntary verification (BS EN 50525-1) · CE ATEX documentation verification (2014/34/EU, voluntary, non-notified). Please request the annex for the cable type you need.

05 · DESIGN DRAWINGS

A DRAWING FOR EVERY CONSTRUCTION, NUMBERED AND EXPLAINED

Every FeiChun technical data sheet includes a cross-section structure drawing: numbered layers, a legend and a construction table that matches the drawing exactly. For special requirements the engineers draw the cable to your specification.

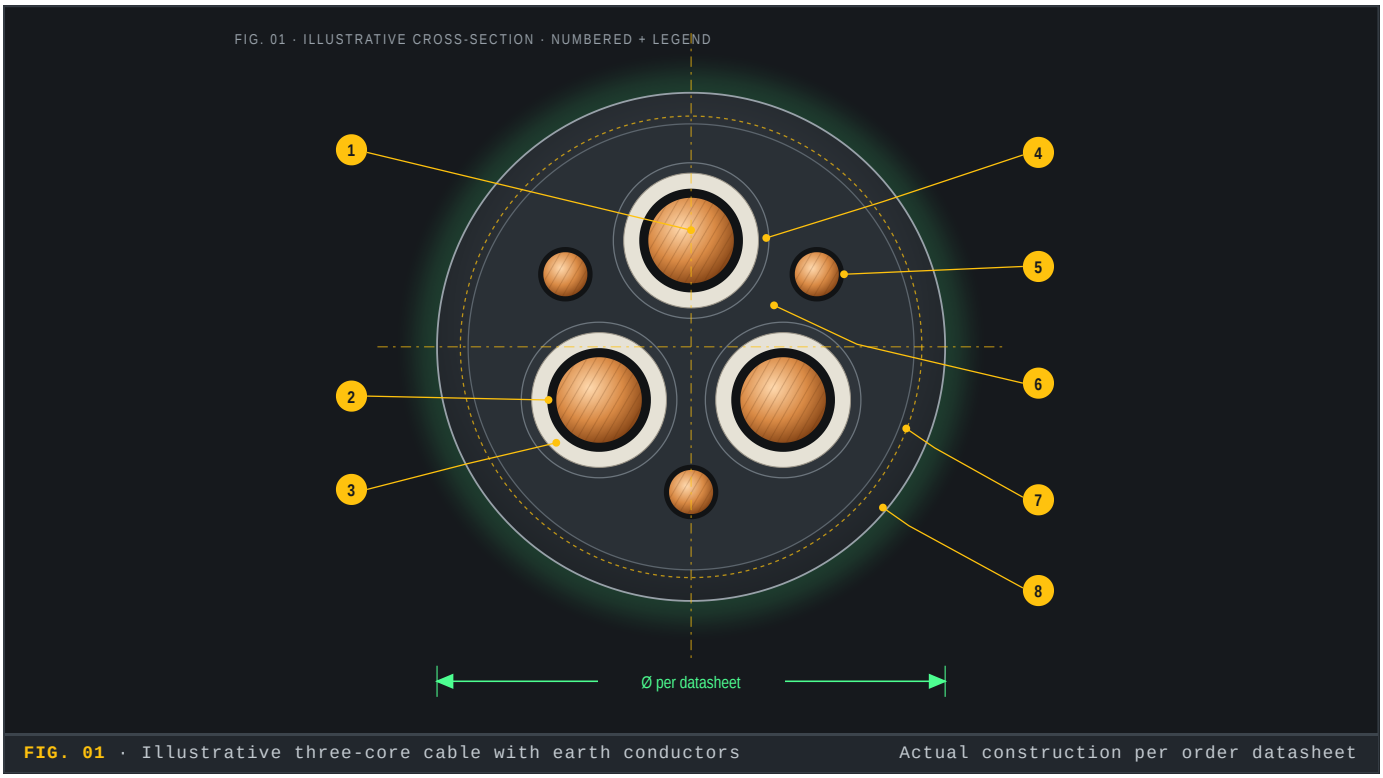

FIG. 01 · Illustrative three-core cable with earth conductors — Actual construction per order datasheet

1. Conductor, flexible stranded copper
2. Conductor screen
3. Insulation (elastomer)
4. Core screen / separator
5. Earth / pilot conductor
6. Filler
7. Inner sheath and reinforcement
8. Outer sheath, heavy duty

EVERY DRAWING INCLUDES

- **Numbered layers** with a legend that reappears in the datasheet.
- **Dimensions** from conductor to outer diameter, linked to the construction table.
- **Core identification:** colours, numbers and marking.
- **Revision and document ID** for clean tender traceability.

CUSTOM DESIGN ON REQUEST

- **Cross-section, voltage and number of cores** as the equipment requires.
- **Control, pilot or fibre-optic elements** added to the construction.
- **Sheath colour and marking** per your specification.
- **Application variants** for reeling, festoon, spreader, mining and rail duty.

Notice: the figure is an illustrative example of how our drawings are laid out, not a product selection. Dimensions and materials are confirmed on the order datasheet.

06 · TENDER SUPPORT

FAST, COMPLETE SUPPORT FOR TRADING COMPANIES IN THE BID

Bids move to deadlines. **Within 24 hours of receiving your specification we send a compliance reply** – a clause-by-clause view of where we comply, partly comply or deviate. The desk is organised around the questions a trading company meets between receiving a tender and submitting it, and during the clarification round after.

HOW A TENDER IS HANDLED

five steps

S-01
RECEIVE SPECIFICATION
Send the tender text, cable list, standards and drawing requests. We acknowledge and read the whole file.

S-02
24-HOUR COMPLIANCE REPLY
Experts map each clause to a construction under DIN VDE or AS/NZS and send the compliance reply within 24 hours.

S-03
BUILD THE TECHNICAL FILE
Datasheets, drawings, compliance matrix and construction specification as one consistent set.

S-04
EVIDENCE AND CERTIFICATES
Test plan, sample reports and the certificate package with annex scope.

S-05
CLARIFICATIONS
Answers to evaluator questions in writing, with revised documents where needed.

S-06
AFTER AWARD
Approved drawings, datasheets and test documents for the order file.

WHAT THE TRADER GAINS

- **Speed:** a compliance reply within 24 hours, and one engineering team for review, drawings and datasheets.
- **Confidence:** every difference from the tender text is stated before submission.
- **Credibility:** evaluators see consistent documents, valid certificates and a verifiable manufacturer.
- **Focus:** the trader concentrates on the commercial side while we cover the technical side.

WHAT STAYS TRANSPARENT

- **Scope of supply:** FeiChun supplies cables only; accessories are not offered.
- **Order terms:** typical lead time 2–3 weeks and minimum order 300 m per cable item.
- **Testing:** in-house tests; third-party tests can be arranged at the buyer's cost.
- **Certificates:** only those listed are held; scope follows each annex.

SEND US THESE TO START

request checklist

01 Tender name and deadline

02 Country and destination (port · Incoterm)

03 Cable list: type, cores × section, voltage

04 Standards and edition named

05 Technical specification or data sheet template

06 Drawings or documents required

07 Certificates or approvals required

08 Test and inspection requirements

07 · COMPARISON AND COMMITMENTS

WHERE A COMPLETE PACKAGE CHANGES THE OUTCOME

The table compares a *typical* supplier that sends only a catalogue datasheet with the package FeiChun prepares. Individual suppliers vary; use it as a checklist with any supplier, including us.

ITEM	SUPPLIER SENDING ONLY A CATALOGUE DATASHEET	FEICHUN TECHNICAL PACKAGE
Technical file	A catalogue page or generic datasheet	Datasheet, drawing, compliance matrix and construction specification as one set
Drawings	Photo or generic sketch	Numbered cross-section with legend matching the datasheet
Standards mapping	May cover one family only	DIN VDE and AS/NZS read clause by clause
Deviations	Found late, by the evaluator	Listed early, in writing, by the engineers
Test evidence	Statement of conformity	Test plan, in-house results and sample reports
Certificates	Copies without scope notes	Number, issuer, validity and annex scope stated
Response	Passed between departments	Compliance reply within 24 hours from the engineering desk
Supplier identity	Limited company information	Address, credit code, capital and bonded-zone site published

OUR COMMITMENTS TO THE TRADING COMPANY

C-01
ONE CONSISTENT FILE
Documents are prepared together, with matching numbering, units and revision.

C-02
HONEST DEVIATIONS
If our construction differs from your text, you hear it from us first.

C-03
24-HOUR COMPLIANCE REPLY
A clause-by-clause compliance reply within 24 hours of receiving your specification.

C-04
VERIFIABLE COMPANY
Company data and manufacturing site are published for supplier qualification.

C-05
CLEAR SCOPE
Cables only, certificates as listed, test options stated in advance.

C-06
SUPPORT THROUGH AWARD
From bid documents to approved drawings after the order.

Aviso: comparisons describe a typical supplier and do not refer to any named company. The 24-hour period counts from receipt of a readable specification and cable list. Values in this document are typical design values; guaranteed characteristics are confirmed in the datasheet and offer of each order.

08 · TECHNICAL REQUEST

REQUEST YOUR TENDER TECHNICAL PACKAGE

Send the tender specification and cable list. We send a clause-by-clause compliance reply within 24 hours, then datasheets and drawings for your bid. If your client has a data sheet template, attach it – we fill it in.

01 Company and tender name	02 Bid deadline and clarification dates
03 Country and destination (port · Incoterm)	04 Cable types (e.g. reeling, festoon, mining, rail)
05 Voltage, cores × section, length	06 Standard and edition (DIN VDE, AS/NZS, other)
07 Special elements (pilot, control, fibre optic)	08 Colour, marking, drum length
09 Certificates or approvals required	10 Test and inspection requirements
11 Price basis and copper clause	12 Documents and language required

CONTACT

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COMPLETE DOCUMENTS.
FASTER TENDER ANSWERS.

Notice: this brief is informational. Experience, standards knowledge and service descriptions refer to FeiChun's technical team and practice. Certificates are held as listed in section 04 and their scope is defined by each annex; standard titles are given for reference and the edition in the contract prevails. Illustrations are examples and not product selections. FeiChun® and FC® are brand marks of Anhui FeiChun Special Cable Co., Ltd.