FEICHUN SPECIAL CABLES · ANHUI FEICHUN SPECIAL CABLE CO., LTD.

WALSTOON™ PNCT Rubber Cabtyre Festoon Cable Technical Datasheet & Commercial Quotation

Overhead crane festoon / cable-chain system — Steel plant application · JIS C 3327 PNCT construction · 7 items / 2,750 m

JIS C 3327 — PNCT | −20 °C to +90 °C | Peak +110 °C | Oil & Abrasion Resistant | Festoon / Cable Chain Duty

TDS No.: FC-TDS-PNCT-2026-A7M3 **Quotation No.:** FC-QTN-PNCT-2026-A7M3 **Revision:** 00

Date: 02 September 2026 **Attn.:** Mr. Abdelrahman Morsy — Electrical Section Head

1. Scope of Supply & Technical Compliance Summary

Thank you for your enquiry regarding PNCT rubber cabtyre flexible cables for an overhead crane festoon / cable-chain system in a steel plant. All seven requested sizes can be manufactured by FeiChun. Four items fall within the standard JIS C 3327 core-count range and three are custom-made multi-core constructions engineered to the same material system and performance class.

Item	Requested Size	FeiChun Type Designation	Qty (m)	Construction Status
1	10 Cores × 4 mm²	WS-FSTN-3PNCT 10C × 4 mm²	550	Custom-made
2	15 Cores × 1.5 mm²	WS-FSTN-3PNCT 15C × 1.5 mm²	150	Custom-made
3	6 Cores × 1.5 mm²	WS-FSTN-3PNCT 6C × 1.5 mm²	350	Custom-made
4	3 Cores × 10 mm²	WS-FSTN-3PNCT 3C × 10 mm²	250	JIS standard
5	1 Core × 150 mm²	WS-FSTN-1PNCT 1C × 150 mm²	350	JIS standard
6	1 Core × 240 mm²	WS-FSTN-1PNCT 1C × 240 mm²	750	JIS standard
7	20 Cores × 1.5 mm²	WS-FSTN-3PNCT 20C × 1.5 mm²	350	Custom-made
Total quantity — 7 items			**2,750**	—

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Custom-made confirmation (as requested): JIS C 3327 formally defines PNCT cables up to 4 cores. Items 1, 2, 3 and 7 (6, 10, 15 and 20 cores) are therefore **custom-made constructions**. FeiChun manufactures them in full accordance with the JIS C 3327 material system — EP rubber insulation and heavy-duty chloroprene (CP) sheath — with the same electrical, thermal, oil-resistance and mechanical test regime applied. Core identification, lay length and filler design are adapted for the higher core counts to preserve roundness and bending life. All items are supplied fully to your stated specification.

2. Technical Specification

2.1 General characteristics

Parameter	Specification
Product designation	WALSTOON™ WS-FSTN-3PNCT (multi-core) / WS-FSTN-1PNCT (single-core)
Reference standard	JIS C 3327 — Rubber insulated cabtyre cables; supplemented by IEC 60245-4 where applicable
Rated voltage	600 V (0.6/1 kV class construction)
Conductor	Annealed bare copper, Class 5 / Class 6 fine stranding to IEC 60228 for maximum flexibility
Insulation	Ethylene-propylene rubber (EPR / EP rubber), 90 °C class
Core identification	Colour-coded to JIS; numbered white cores for ≥ 6-core custom constructions (recommended)
Laying-up	Short-pitch bunching over a central textile / elastomer support core with rubber-compatible fillers
Separator	Rubber-compatible synthetic tape, non-adhering to sheath (allows the cable to flex without core migration)
Sheath	Heavy-duty chloroprene rubber (CP / PCP), oil and abrasion resistant, flame retardant, weather and ozone resistant
Sheath colour	Black (standard); alternative colours on request

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2.2 Thermal and mechanical performance

Parameter	Value
Continuous operating temperature	**−20 °C to +90 °C** (conductor)
Short-duration temperature peaks	**Up to +110 °C**
Short-circuit temperature (5 s max.)	+250 °C
Minimum installation temperature	−15 °C (moving), −25 °C (fixed)
Minimum bending radius — fixed	4 × overall diameter
Minimum bending radius — festoon / flexing	6 × overall diameter (multi-core); 8 × Ø for 150 / 240 mm^2 single-core
Maximum travelling speed	180 m/min (festoon trolley system)
Maximum acceleration	1.5 m/s^2
Flexing cycle endurance	> 3 × 10^6 cycles at the specified bending radius (type-tested)
Tensile load (sheath)	≥ 10 N/mm^2, elongation at break ≥ 300 %
Oil resistance	IRM 902 oil immersion, 70 °C / 4 h — tensile and elongation change within ±30 %
Abrasion / wear resistance	High — heavy-duty CP sheath formulation for steel-plant and crane duty
Flame retardance	IEC 60332-1-2 single vertical flame test
Ozone / weather / UV	Resistant — suitable for indoor and outdoor crane runways

2.3 Electrical properties

Parameter	Value
Test voltage (a.c., 5 min)	2,000 V
Insulation resistance at 20 °C	≥ 50 MΩ·km
Conductor resistance	To IEC 60228 Class 5 / Class 6 limits
Rated frequency	50 / 60 Hz

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Technical compliance statement: Every characteristic listed in your enquiry — PNCT rubber cabtyre construction, festoon / cable-chain suitability, continuous movement and repeated bending, −20 °C to +90 °C with peaks to +110 °C, oil resistance, high abrasion and wear resistance, heavy-duty crane and hoist duty, and high flexibility with mechanical durability — is **fully met** by the offered construction. No deviation is taken.

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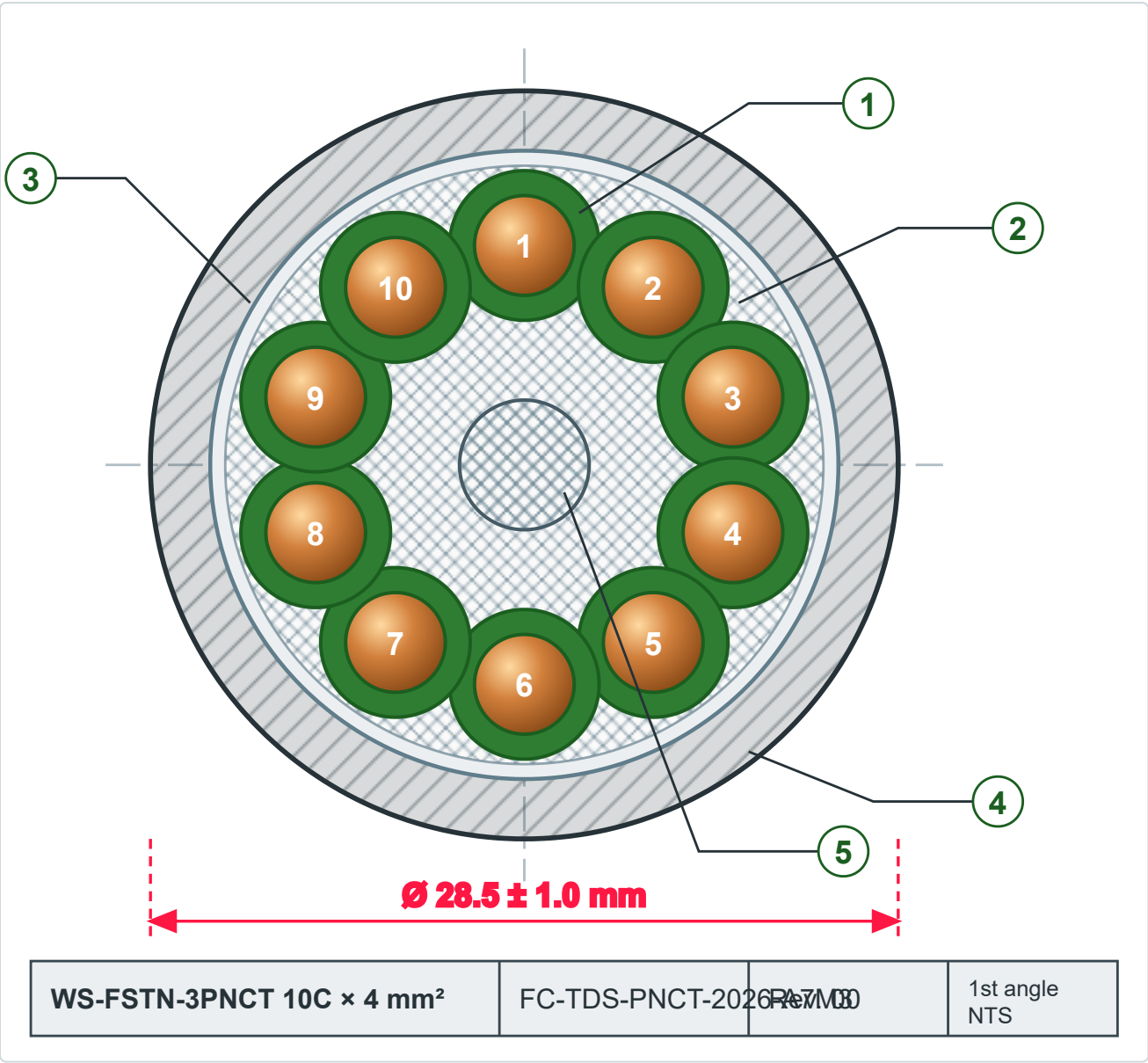
3. Dimensional & Rating Data

Item	Type & size	Conductor class	Insulation thickness (mm)	Sheath thickness (mm)	Approx. overall Ø (mm)	Approx. weight (kg/km)	Current rating in air (A)*
1	3PNCT 10C × 4 mm²	5	1.0	3.0	28.5 ± 1.0	1,540	30
2	3PNCT 15C × 1.5 mm²	5	0.8	2.6	22.0 ± 0.8	880	17
3	3PNCT 6C × 1.5 mm²	5	0.8	2.0	14.5 ± 0.6	400	18
4	3PNCT 3C × 10 mm²	5	1.2	2.6	21.5 ± 0.8	1,020	57
5	1PNCT 1C × 150 mm²	5	2.0	3.0	27.0 ± 1.0	1,980	395
6	1PNCT 1C × 240 mm²	5	2.2	3.2	33.0 ± 1.2	3,050	525
7	3PNCT 20C × 1.5 mm²	5	0.8	2.8	24.5 ± 1.0	1,120	16

** Current ratings are for free air at 30 °C ambient, single cable, all cores loaded. Apply grouping, ambient and festoon-bunching derating factors for the actual installation. Dimensions are nominal pre-production values; final figures are confirmed on the approved manufacturing drawing.*

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4. Cross-Section Construction — Representative Drawing



WS-FSTN-3PNCT 10C × 4 mm²	FC-TDS-PNCT-2026 Rev 03	PAGE 3 OF 3	1st angle NTS

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Pos.	Element	Material
1	Conductor	Annealed bare copper, fine stranded, IEC 60228 Class 5
2	Insulation	Ethylene-propylene rubber (EPR), 90 °C class
3	Outer sheath	Heavy-duty chloroprene (CP/PCP), oil & abrasion resistant, black
4	Separator tape	Rubber-compatible synthetic tape, non-adhering
5	Central support core & fillers	Textile / elastomer strain-bearing core with rubber-compatible fillers

Figure 1 — Representative cross-section, Item 1 (10 cores × 4 mm²). The same layer architecture applies to Items 2, 3, 4 and 7 with core count and layer thicknesses per Section 3. Single-core Items 5 and 6 comprise Pos. 1, 2 and 3 only.

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5. Commercial Quotation — FC-QTN-PNCT-2026-A7M3 (USD)

Item	Description	Qty (m)	Unit price USD/m	Amount USD
1	WALSTOON WS-FSTN-3PNCT 600 V, 10 Cores × 4 mm², EPR/CP festoon cable	550	9.46	5,203.00
2	WALSTOON WS-FSTN-3PNCT 600 V, 15 Cores × 1.5 mm², EPR/CP festoon cable	150	5.92	888.00
3	WALSTOON WS-FSTN-3PNCT 600 V, 6 Cores × 1.5 mm², EPR/CP festoon cable	350	2.50	875.00
4	WALSTOON WS-FSTN-3PNCT 600 V, 3 Cores × 10 mm², EPR/CP festoon cable	250	6.91	1,727.50
5	WALSTOON WS-FSTN-1PNCT 600 V, 1 Core × 150 mm², EPR/CP festoon cable	350	30.36	10,626.00
6	WALSTOON WS-FSTN-1PNCT 600 V, 1 Core × 240 mm², EPR/CP festoon cable	750	48.43	36,322.50
7	WALSTOON WS-FSTN-3PNCT 600 V, 20 Cores × 1.5 mm², EPR/CP festoon cable	350	7.60	2,660.00
Total quantity		**2,750**	—	—
TOTAL — FOB Shanghai, USD				**58,302.00**

Price basis: All prices are quoted in US Dollars, FOB Shanghai, Incoterms® 2020, and are **subject to LME copper market fluctuation**. Prices are converted from our RMB mill price at an indicative rate of 1 USD = 7.10 CNY; the applicable rate is reconfirmed at the time of order placement.

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5.1 Commercial terms

Item	Terms
Price basis	FOB Shanghai, Incoterms® 2020 (CFR / CIF available on request)
Currency	USD
Payment terms	T/T 50 % with order as down payment, 50 % balance before shipment
Delivery time	25–30 working days after receipt of down payment and approved drawings
Packing	Non-returnable wooden / steel-reinforced drums, both ends sealed with heat-shrink caps
Length tolerance	Standard delivery lengths per drum; ±2 % on ordered length
Marking	Embossed sheath marking: FEICHUN + type + size + voltage + standard + sequential metre marking
Quality documents	Routine test certificate, certificate of conformity, packing list, commercial invoice, certificate of origin
Warranty	12 months from date of commissioning or 18 months from date of shipment, whichever occurs first
Port of loading	Shanghai, China

Please confirm before production: (a) required delivery length per drum for each item; (b) core identification preference for the 6, 10, 15 and 20-core custom items — colour-coded or numbered white cores; (c) festoon trolley spacing, loop depth and travel length, so we can verify the bending radius and self-supporting requirement; (d) whether an earth core is required within the multi-core items or supplied separately.

Supplier — Anhui FeiChun Special Cable Co., Ltd.

Zihao Yang · Global Sales Manager
International Business Department
zihao.yang@feichuncables.com

Signature & company stamp / Date

Client acceptance

Attn.: Mr. Abdelrahman Morsy
Electrical Section Head

Signature & company stamp / Date

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