TECHNICAL DATASHEET | IEC 60502-1 / 60502-2 | BESS INFRASTRUCTURE | MOQ 200 m PER LINE

Simandou Concentrator Battery Energy Storage System — Cable Package

Technical datasheet for the LV, control, MV, instrumentation, fibre-optic and earthing cables in the Infrastructure MTO — Cables and Cable Accessories BOM

Doc. No.: FC-TDS-BES-2026-1A2G **Revision:** 01 **Date:** 29 September 2026

Project	Simandou — concentrator on-site power generation, Battery Energy Storage System (BESS)
Client BOM	I-SM-2850-E-BOM-00001 Rev 1 (8 July 2026), Infrastructure MTO — cables and cable accessories
Areas	2850-SUB-2001 & BESS area; cables from 2800 to 2850
Supplier	Anhui FeiChun Special Cable Co., Ltd. (FeiChun Special Cables), International Business Department
Supply basis	22 BOM lines, 20 cable constructions; minimum order quantity 200 m per BOM line

22	20	14,457 m	7	15,270 m
BOM lines	Cable constructions	Required in BOM	Lines raised to 200 m	Total supplied

Minimum order quantity: 200 m per BOM line. A line with a required length below 200 m is supplied as 200 m. Lines at or above 200 m are supplied at the required length.

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17	Z610I — 10x2x1 · ICA 10x2x1+C
18	W612D — SM 1x12 E9/125 · A-DQ(ZN)2Y(SR)2Y fixed
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21	I120E — 1x120 (class 5) G/Y · H07V-K 450/750 V
22	Y111E — 1x120 (class 5) G/Y · PVC 0.6/1 kV
23	Y115E — 1x300 (class 5) G/Y · PVC 0.6/1 kV

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2 Supply schedule

Required and supplied length per BOM line
MOQ 200 m per line

Line	Item	BOM description	Required (m)	Supplied (m)	Mass (kg)	Remark
1	**X301P**	3x2,5RE — 2XY-J 0.6/1 kV	204	**204**	36	BESS area 2850-SUB-2001
2	**X503P**	5x6RM — 2XY-J 0.6/1 kV	29	**200** MOQ	95	BESS area 2850-SUB-2001
3	**X504P**	5x10RM — 2XY-J 0.6/1 kV	227	**227**	158	BESS area 2850-SUB-2001
4	**X508P**	5x50RM — 2XY-J 0.6/1 kV	551	**551**	1,606	BESS area 2850-SUB-2001
5	**X510P**	5x95RM — 2XY-J 0.6/1 kV	12	**200** MOQ	1,067	BESS area 2850-SUB-2001
6	**X207C**	7x1.5RE — 2XY-J 0.6/1 kV control	199	**200** MOQ	46	BESS area 2850-SUB-2001
7	**X214C**	14x1.5RE — 2XY-J 0.6/1 kV control	721	**721**	303	BESS area 2850-SUB-2001
8	**Z610I**	10 x 2 x 1 — ICA 10x2x1+C flexible instrumentation	258	**258**	111	BESS area 2850-SUB-2001
9	**W612D**	SM 1x12 E9/125 µm — A-DQ(ZN)2Y(SR)2Y fixed	33	**200** MOQ	19	BESS area 2850-SUB-2001
10	**W648D**	SM 4x12 E9/125 µm — A-DQ(ZN)2Y(SR)2Y fixed	1,178	**1,178**	241	BESS area 2850-SUB-2001
11	**I035E**	Green/yellow PVC insulated copper wire 35 mm²	74	**200** MOQ	72	BESS area 2850-SUB-2001
12	**I120E**	Green/yellow PVC insulated copper wire 120 mm²	1,698	**1,698**	2,004	588 m BESS area + 1,110 m from 2800 to 2850
13	**X301P**	3x2.5 mm² — LV XLPE cable 2XY-J 0.6/1 kV	100	**200** MOQ	35	Separate BOM line, same construction as line 1
14	**X501P**	5x2.5 mm² — LV XLPE cable 2XY-J 0.6/1 kV	140	**200** MOQ	50	LV XLPE list
15	**X502P**	5x4 mm² — LV XLPE cable 2XY-J 0.6/1 kV	—	TBC	—	No quantity stated in the BOM
16	**X503P**	5x6 mm² — LV XLPE cable 2XY-J 0.6/1 kV	390	**390**	185	Separate BOM line, same construction as line 2
17	**X609M**	1x70/16 — 2XSY 26/35 (40.5) kV unarmoured	456	**456**	935	MV list
18	**X617MR**	1x500/50 — 2XSYR(Al)Y 26/35 (40.5) kV armoured	3,579	**3,579**	31,227	564 m BESS area + 3,015 m from 2800 to 2850
19	**X115MF**	1x300 — RZ1-K (AS) XLPE LSZH 1.8/3 kV flexible MV	2,672	**2,672**	8,216	MV list
20	**X115P**	1x300 — 2XY 0.6/1 kV non-armoured	1,192	**1,192**	3,582	LV list
21	**Y111E**	1x120 — green/yellow PVC earthing (PCS to PCS to battery container)	522	**522**	616	Earthing list
22	**Y115E**	1x300 — green/yellow PVC earthing	222	**222**	652	Earthing list
Total (22 BOM lines; line 15 has no quantity)			**14,457**	**15,270**	**51,255**	**+813 m from MOQ**

Notes. Lines 1 and 13 (X301P), and lines 2 and 16 (X503P), are the same construction listed twice in the BOM; the 200 m MOQ is applied to each BOM line as listed. Line 15 (X502P) has no quantity in the BOM; if ordered, 200 m MOQ applies. Masses are approximate, from the nominal mass per kilometre on each item page.

3 Designations, standards and general terms

Applies to all items
BOM designation to FeiChun construction

BOM designation and FeiChun construction

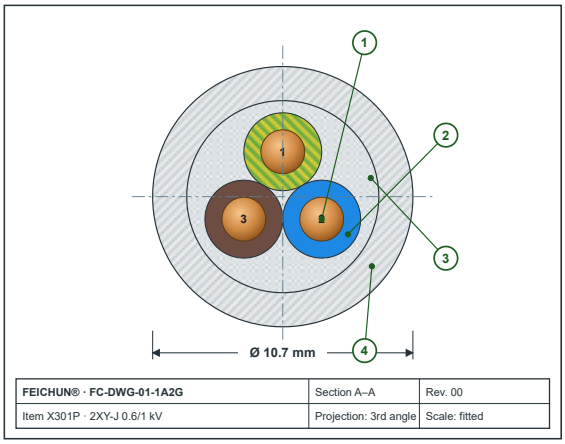
BOM designation	FeiChun construction	Standard basis
2XY-J 0.6/1 kV — X301P, X501P, X502P, X503P, X504P, X508P, X510P	Cu / XLPE / PVC, multicore with green/yellow earth core, non-armoured	IEC 60502-1
2XY-J 0.6/1 kV control — X207C, X214C	Cu solid / XLPE / PVC, black numbered cores + green/yellow, non-armoured	IEC 60502-1
2XY 0.6/1 kV — X115P	Cu / XLPE / PVC, single core, non-armoured	IEC 60502-1
RZ1-K (AS) 1.8/3 kV — X115MF	Cu class 5 / XLPE / LSZH, flexible single core	IEC 60502-1; IEC 60332-3-24; IEC 60754; IEC 61034
2XSY 26/35 (40.5) kV — X609M	Cu / XLPE / Cu wire screen / PVC, single core	IEC 60502-2
2XSYR(Al)Y 26/35 (40.5) kV — X617MR	Cu / XLPE / Cu wire screen / Al round-wire armour / PVC	IEC 60502-2
ICA 10x2x1+C — Z610I	10 twisted pairs, collective Al/PET screen + drain, flexible	IEC 60228; IEC 60332-1-2
A-DQ(ZN)2Y(SR)2Y fixed — W612D, W648D	Loose-tube, gel-filled, non-metallic strength, steel-tape armour, PE / PE	IEC 60794-3-10; ITU-T G.652.D
Green/yellow PVC wire — I035E, I120E	H07V-K equivalent, 450/750 V, class 5 copper	IEC 60227-3 / EN 50525-2-31
Green/yellow PVC earthing — Y111E, Y115E	Single core PVC, 0.6/1 kV, class 5 copper	IEC 60502-1

General technical data and terms

Conductors	IEC 60228: class 1 solid, class 2 compacted stranded, class 5 flexible; plain annealed copper (tinned for Z610I)
Insulation / sheath compounds	XLPE (90 °C); PVC ST2 (90 °C sheath); PVC insulation (70 °C); LSZH polyolefin; PE
Rated voltages	0.6/1 kV; 1.8/3 kV (RZ1-K); 26/35 (40.5) kV; 450/750 V (I-series); 300/500 V (Z610I)
Routine test voltages	0.6/1 kV: 3.5 kV; 1.8/3 kV: 6.5 kV; 26/35 kV: 65 kV with partial discharge ≤ 10 pC at 1.73 U0; 450/750 V: 2.5 kV
XLPE insulation limits	Tensile strength ≥ 12.5 N/mm², elongation at break ≥ 200 %; hot set (200 °C, 20 N/cm², 15 min) elongation ≤ 175 %, permanent set ≤ 15 %
PVC ST2 sheath limits	Tensile strength ≥ 12.5 N/mm², elongation at break ≥ 150 %; after ageing (100 °C, 7 days) variation ≤ 25 %
PVC insulation limits	I-series (TI1): tensile ≥ 10 N/mm², elongation ≥ 150 %; Y-series: tensile ≥ 12.5 N/mm², elongation ≥ 125 %, after ageing (100 °C, 7 days) variation ≤ 25 %
LSZH sheath limits	Tensile strength ≥ 9 N/mm², elongation at break ≥ 125 %
Flame behaviour	IEC 60332-1-2 for PVC/XLPE cables; IEC 60332-3-24 category C for RZ1-K LSZH
Short-circuit factors (1 s)	k = 143 for Cu/XLPE (90 → 250 °C); k = 115 for Cu/PVC (70 → 160 °C)
Resistance temperature factor	Copper α20 = 0.00393 per K; R90 = 1.275 × R20; R70 = 1.197 × R20
Mass and dimensions	Calculated nominal values; production tolerance ± 5 % on overall diameter (± 0.5 mm for fibre-optic cables)
Delivery form	Continuous lengths on non-returnable wooden drums (ISPM 15), cable ends sealed
Minimum order quantity	200 m per BOM line; lines below 200 m are supplied as 200 m in one continuous length
Test documentation	In-house laboratory routine test report and factory certificate with each shipment; independent third-party inspection available at the buyer's cost
Production lead time	Typically 2–3 weeks after order confirmation
Warranty	Minimum 3 years against manufacturing defects

X301P 3x2.5 RE

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 1 (solid), IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.4 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	3 × 2.5 mm² RE
Conductor	Plain annealed copper, class 1 solid, IEC 60228
Min. number of wires	1 (solid)
Conductor Ø (nominal)	1.8 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	3.2 mm
Core identification	Green/yellow, blue, brown (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.4 mm, min. at any point 1.09 mm, black

2. Dimensions and mass

Overall Ø (nominal)	10.7 mm (production tolerance ± 5 %)
Approx. mass	175 kg/km (17.5 kg per 100 m)
Copper content	66.7 kg/km (total Cu area 7.5 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	7.41 Ω/km
Conductor resistance at 90 °C (DC)	9.45 Ω/km
Insulation resistance at 90 °C (min)	0.92 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.095 Ω/km
Short-circuit current, 1 s (conductor)	0.36 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	31 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	105 mm (10 × Ø)
Max. pulling force (on conductors)	375 N (50 N/mm² × 7.5 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

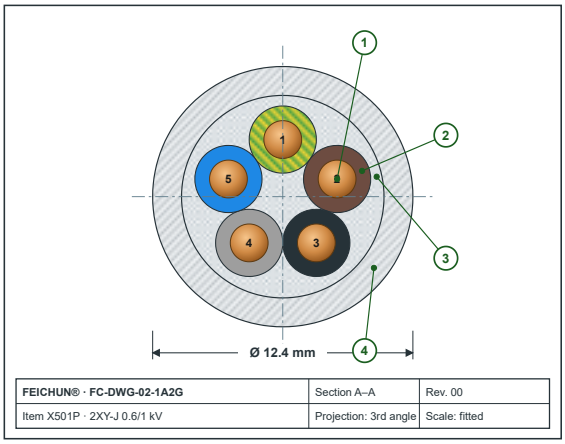
Cable marking	FEICHUN 2XY-J 3x2.5 RE 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
1	3x2,5RE — 2XY-J 0.6/1 kV	204	**204**
13	3x2.5 mm² — LV XLPE cable 2XY-J 0.6/1 kV	100	**200** MOQ 200 m

Supply for this item: 404 m · approx. mass 71 kg · copper 27 kg

X501P 5x2.5 RE

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 1 (solid), IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.4 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	5 × 2.5 mm² RE
Conductor	Plain annealed copper, class 1 solid, IEC 60228
Min. number of wires	1 (solid)
Conductor Ø (nominal)	1.8 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	3.2 mm
Core identification	Green/yellow, brown, black, grey, blue (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.4 mm, min. at any point 1.09 mm, black

2. Dimensions and mass

Overall Ø (nominal)	12.4 mm (production tolerance ± 5 %)
Approx. mass	250 kg/km (25.0 kg per 100 m)
Copper content	111.1 kg/km (total Cu area 12.5 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	7.41 Ω/km
Conductor resistance at 90 °C (DC)	9.45 Ω/km
Insulation resistance at 90 °C (min)	0.92 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.095 Ω/km
Short-circuit current, 1 s (conductor)	0.36 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	31 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	125 mm (10 × Ø)
Max. pulling force (on conductors)	625 N (50 N/mm² × 12.5 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

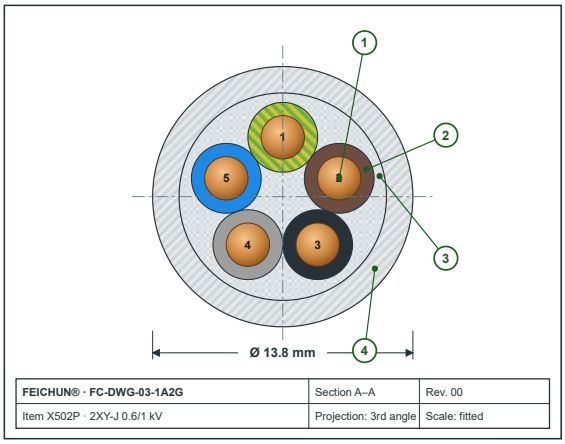
Cable marking	FEICHUN 2XY-J 5x2.5 RE 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
14	5x2.5 mm² — LV XLPE cable 2XY-J 0.6/1 kV	140	**200** MOQ 200 m

Supply for this item: 200 m · approx. mass 50 kg · copper 22 kg

X502P 5x4 RE

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 1 (solid), IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.4 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	5 × 4 mm² RE
Conductor	Plain annealed copper, class 1 solid, IEC 60228
Min. number of wires	1 (solid)
Conductor Ø (nominal)	2.3 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	3.7 mm
Core identification	Green/yellow, brown, black, grey, blue (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.4 mm, min. at any point 1.09 mm, black

2. Dimensions and mass

Overall Ø (nominal)	13.8 mm (production tolerance ± 5 %)
Approx. mass	340 kg/km (34.0 kg per 100 m)
Copper content	177.8 kg/km (total Cu area 20 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	4.61 Ω/km
Conductor resistance at 90 °C (DC)	5.88 Ω/km
Insulation resistance at 90 °C (min)	0.76 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.089 Ω/km
Short-circuit current, 1 s (conductor)	0.57 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	42 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	140 mm (10 × Ø)
Max. pulling force (on conductors)	1.00 kN (50 N/mm² × 20 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

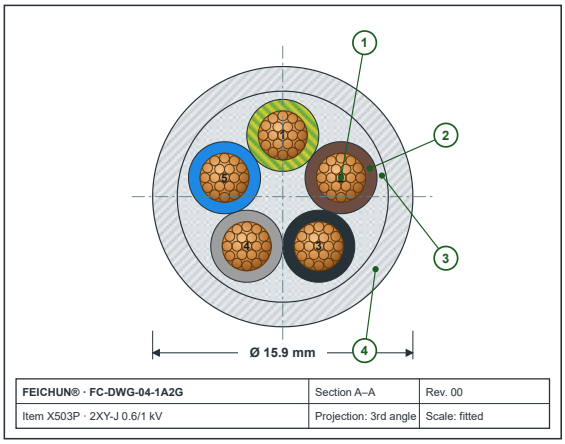
Cable marking	FEICHUN 2XY-J 5x4 RE 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
15	5x4 mm² — LV XLPE cable 2XY-J 0.6/1 kV	—	TBC (200 m if ordered)

Supply for this item: 0 m · approx. mass 0 kg

X503P 5x6 RM

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 (compacted stranded), IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.5 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	5 × 6 mm² RM
Conductor	Plain annealed copper, class 2 compacted stranded, IEC 60228
Min. number of wires	6
Conductor Ø (nominal)	3.0 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	4.4 mm
Core identification	Green/yellow, brown, black, grey, blue (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.5 mm, min. at any point 1.17 mm, black

2. Dimensions and mass

Overall Ø (nominal)	15.9 mm (production tolerance ± 5 %)
Approx. mass	475 kg/km (47.5 kg per 100 m)
Copper content	266.7 kg/km (total Cu area 30 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	3.08 Ω/km
Conductor resistance at 90 °C (DC)	3.93 Ω/km
Insulation resistance at 90 °C (min)	0.61 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.083 Ω/km
Short-circuit current, 1 s (conductor)	0.86 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	54 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	160 mm (10 × Ø)
Max. pulling force (on conductors)	1.50 kN (50 N/mm² × 30 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

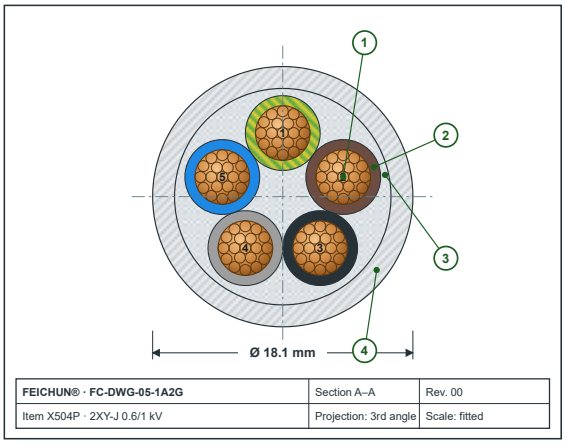
Cable marking	FEICHUN 2XY-J 5x6 RM 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
2	5x6RM — 2XY-J 0.6/1 kV	29	**200** MOQ 200 m
16	5x6 mm² — LV XLPE cable 2XY-J 0.6/1 kV	390	**390**

Supply for this item: 590 m · approx. mass 280 kg · copper 157 kg

X504P 5x10 RM

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 (compacted stranded), IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.5 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	5 × 10 mm² RM
Conductor	Plain annealed copper, class 2 compacted stranded, IEC 60228
Min. number of wires	6
Conductor Ø (nominal)	3.8 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	5.2 mm
Core identification	Green/yellow, brown, black, grey, blue (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.5 mm, min. at any point 1.17 mm, black

2. Dimensions and mass

Overall Ø (nominal)	18.1 mm (production tolerance ± 5 %)
Approx. mass	695 kg/km (69.5 kg per 100 m)
Copper content	444.5 kg/km (total Cu area 50 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	1.83 Ω/km
Conductor resistance at 90 °C (DC)	2.33 Ω/km
Insulation resistance at 90 °C (min)	0.50 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.079 Ω/km
Short-circuit current, 1 s (conductor)	1.43 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	75 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	180 mm (10 × Ø)
Max. pulling force (on conductors)	2.50 kN (50 N/mm² × 50 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

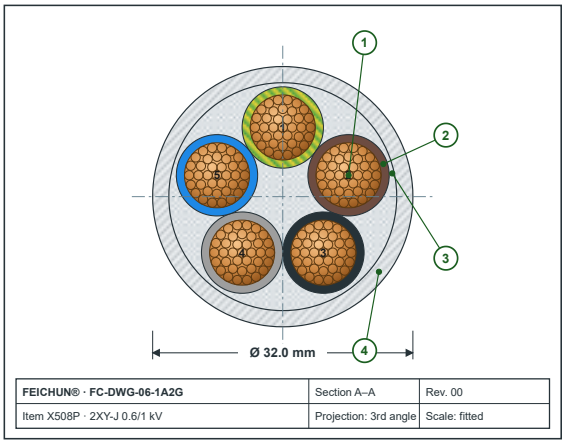
Cable marking	FEICHUN 2XY-J 5x10 RM 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
3	5x10RM — 2XY-J 0.6/1 kV	227	**227**

Supply for this item: 227 m · approx. mass 158 kg · copper 101 kg

X508P 5x50 RM

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 (compacted stranded), IEC 60228
2	Insulation	XLPE, 1.0 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 2.0 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	5 × 50 mm² RM
Conductor	Plain annealed copper, class 2 compacted stranded, IEC 60228
Min. number of wires	6
Conductor Ø (nominal)	8.0 mm
Insulation	XLPE, nominal 1.0 mm, min. at any point 0.80 mm
Core Ø over insulation	10.0 mm
Core identification	Green/yellow, brown, black, grey, blue (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 2.0 mm, min. at any point 1.60 mm, black

2. Dimensions and mass

Overall Ø (nominal)	32.0 mm (production tolerance ± 5 %)
Approx. mass	2,915 kg/km (291.5 kg per 100 m)
Copper content	2,222.5 kg/km (total Cu area 250 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.387 Ω/km
Conductor resistance at 90 °C (DC)	0.493 Ω/km
Insulation resistance at 90 °C (min)	0.36 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.073 Ω/km
Short-circuit current, 1 s (conductor)	7.15 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	192 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	320 mm (10 × Ø)
Max. pulling force (on conductors)	12.50 kN (50 N/mm² × 250 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

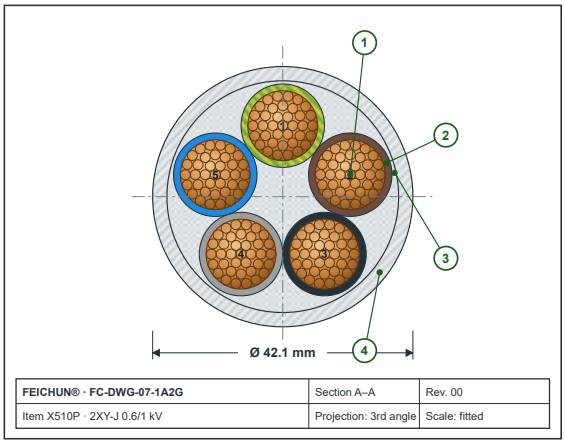
Cable marking	FEICHUN 2XY-J 5x50 RM 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
4	5x50RM — 2XY-J 0.6/1 kV	551	**551**

Supply for this item: 551 m · approx. mass 1,606 kg · copper 1,225 kg

X510P 5x95 RM

2XY-J 0.6/1 kV
LV power cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 (compacted stranded), IEC 60228
2	Insulation	XLPE, 1.1 mm nominal; core colours per HD 308 with green/yellow (J) earth core
3	Inner covering / filler	Extruded non-hygroscopic PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 2.3 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	5 × 95 mm² RM
Conductor	Plain annealed copper, class 2 compacted stranded, IEC 60228
Min. number of wires	15
Conductor Ø (nominal)	11.3 mm
Insulation	XLPE, nominal 1.1 mm, min. at any point 0.89 mm
Core Ø over insulation	13.5 mm
Core identification	Green/yellow, brown, black, grey, blue (HD 308)
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 2.3 mm, min. at any point 1.85 mm, black

2. Dimensions and mass

Overall Ø (nominal)	42.1 mm (production tolerance ± 5 %)
Approx. mass	5,335 kg/km (533.5 kg per 100 m)
Copper content	4,222.8 kg/km (total Cu area 475 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.193 Ω/km
Conductor resistance at 90 °C (DC)	0.246 Ω/km
Insulation resistance at 90 °C (min)	0.28 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.070 Ω/km
Short-circuit current, 1 s (conductor)	13.58 kA per core (k = 143, 90 → 250 °C)
Current rating, in air	298 A (IEC 60364-5-52 method E, 30 °C, 3 loaded cores)

4. Mechanical and thermal

Min. bending radius (fixed)	420 mm (10 × Ø)
Max. pulling force (on conductors)	23.75 kN (50 N/mm² × 475 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

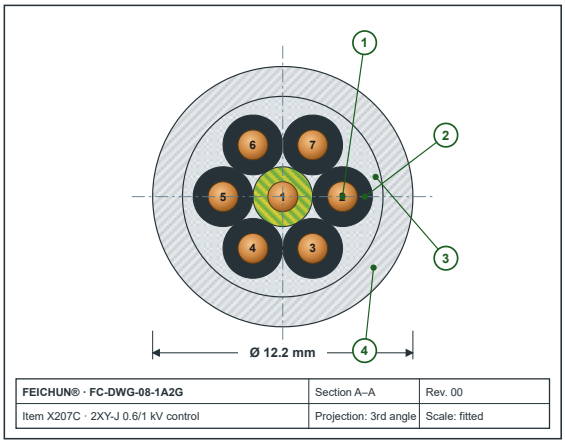
Cable marking	FEICHUN 2XY-J 5x95 RM 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
5	5x95RM — 2XY-J 0.6/1 kV	12	**200** MOQ 200 m

Supply for this item: 200 m · approx. mass 1,067 kg · copper 845 kg

X207C 7x1.5 RE

2XY-J 0.6/1 kV control
Control cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 1 solid, IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; black cores, white numerals, one green/yellow core (J)
3	Inner covering / filler	Extruded PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.4 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV control (Cu / XLPE / PVC)
Cores × cross-section	7 × 1.5 mm² RE
Conductor	Plain annealed copper, class 1 solid, IEC 60228
Min. number of wires	1 (solid)
Conductor Ø (nominal)	1.4 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	2.8 mm
Core identification	Core 1 green/yellow (earth, J); black cores numbered 2 to 7 in white print
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.4 mm, min. at any point 1.09 mm, black

2. Dimensions and mass

Overall Ø (nominal)	12.2 mm (production tolerance ± 5 %)
Approx. mass	230 kg/km (23.0 kg per 100 m)
Copper content	93.3 kg/km (total Cu area 10.5 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	12.10 Ω/km
Conductor resistance at 90 °C (DC)	15.43 Ω/km
Insulation resistance at 90 °C (min)	1.10 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.103 Ω/km
Short-circuit current, 1 s (conductor)	0.21 kA per core (k = 143, 90 → 250 °C)
Current rating	Grouping factor for > 4 loaded cores applies (IEC 60364-5-52); control duty

4. Mechanical and thermal

Min. bending radius (fixed)	120 mm (10 × Ø)
Max. pulling force (on conductors)	525 N (50 N/mm² × 10.5 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

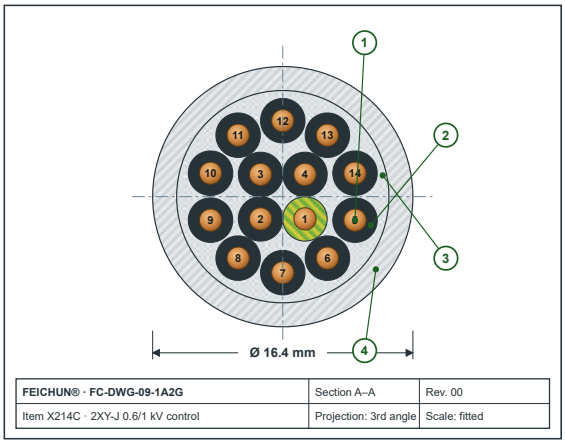
Cable marking	FEICHUN 2XY-J 7x1.5 RE 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
6	7x1.5RE — 2XY-J 0.6/1 kV control	199	**200** MOQ 200 m

Supply for this item: 200 m · approx. mass 46 kg · copper 19 kg

X214C 14x1.5 RE

2XY-J 0.6/1 kV control
Control cables 2XY-J 0.6/1 kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 1 solid, IEC 60228
2	Insulation	XLPE, 0.7 mm nominal; black cores, white numerals, one green/yellow core (J)
3	Inner covering / filler	Extruded PVC filler, circular over laid-up cores
4	Outer sheath	PVC type ST2, 1.5 mm nominal, black

1. Construction

Designation	2XY-J 0.6/1 kV control (Cu / XLPE / PVC)
Cores × cross-section	14 × 1.5 mm² RE
Conductor	Plain annealed copper, class 1 solid, IEC 60228
Min. number of wires	1 (solid)
Conductor Ø (nominal)	1.4 mm
Insulation	XLPE, nominal 0.7 mm, min. at any point 0.53 mm
Core Ø over insulation	2.8 mm
Core identification	Core 1 green/yellow (earth, J); black cores numbered 2 to 14 in white print
Laying-up / filler	Cores laid up with extruded PVC filler, circular
Outer sheath	PVC type ST2, nominal 1.5 mm, min. at any point 1.17 mm, black

2. Dimensions and mass

Overall Ø (nominal)	16.4 mm (production tolerance ± 5 %)
Approx. mass	420 kg/km (42.0 kg per 100 m)
Copper content	186.7 kg/km (total Cu area 21 mm²)

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	12.10 Ω/km
Conductor resistance at 90 °C (DC)	15.43 Ω/km
Insulation resistance at 90 °C (min)	1.10 MΩ·km (Ki = 3.67 MΩ·km)
Reactance at 50 Hz (approx.)	0.103 Ω/km
Short-circuit current, 1 s (conductor)	0.21 kA per core (k = 143, 90 → 250 °C)
Current rating	Grouping factor for > 4 loaded cores applies (IEC 60364-5-52); control duty

4. Mechanical and thermal

Min. bending radius (fixed)	165 mm (10 × Ø)
Max. pulling force (on conductors)	1.05 kN (50 N/mm² × 21 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC voltage test, 5 min
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

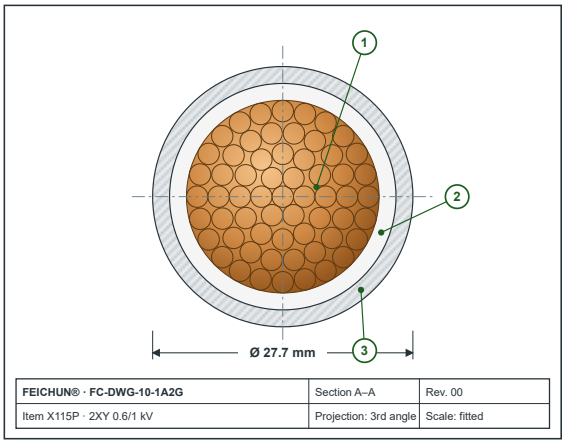
Cable marking	FEICHUN 2XY-J 14x1.5 RE 0.6/1 kV IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
7	14x1.5RE — 2XY-J 0.6/1 kV control	721	**721**

Supply for this item: 721 m · approx. mass 303 kg · copper 135 kg

X115P 1x300 RM

2XY 0.6/1 kV
Single-core cables



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 compacted stranded, IEC 60228
2	Insulation	XLPE, 1.8 mm nominal
3	Outer sheath	PVC type ST2, 1.8 mm nominal, black

1. Construction

Designation	2XY 0.6/1 kV (Cu / XLPE / PVC)
Cores × cross-section	1 × 300 mm²
Conductor	Plain annealed copper, class 2 compacted stranded, IEC 60228
Conductor wires	Min. number of wires 34
Conductor Ø (nominal)	20.5 mm
Insulation	XLPE, nominal 1.8 mm, min. at any point 1.52 mm
Ø over insulation	24.1 mm
Outer sheath	PVC type ST2, black, nominal 1.8 mm, min. at any point 1.43 mm

2. Dimensions and mass

Overall Ø (nominal)	27.7 mm (production tolerance ± 5 %)
Approx. mass	3,005 kg/km (300.5 kg per 100 m)
Copper content	2,667.0 kg/km

3. Electrical

Rated voltage U0/U (Um)	0.6/1 (1.2) kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.0601 Ω/km
Conductor resistance at 90 °C (DC)	0.0766 Ω/km
Insulation resistance at 90 °C (min)	0.26 MΩ·km (Ki = 3.67 MΩ·km)
Reactance, trefoil touching (approx.)	0.078 Ω/km at 50 Hz
Short-circuit current, 1 s	42.9 kA (k = 143, 90 → 250 °C)

4. Mechanical and thermal

Min. bending radius (fixed)	415 mm (15 × Ø)
Max. pulling force (on conductor)	15.0 kN (50 N/mm² × 300 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC, 5 min voltage test
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and sheath limits per general data, page 3

6. Marking, packing and supply

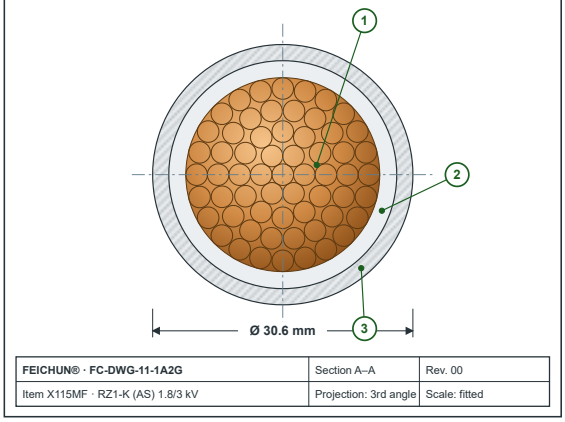
Cable marking	FEICHUN 2XY 0.6/1 kV 1x300 IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
20	1x300 — 2XY 0.6/1 kV non-armoured	1,192	**1,192**

Supply for this item: 1,192 m · approx. mass 3,582 kg · copper 3,179 kg

X115MF 1x300 (class 5)

RZ1-K (AS) 1.8/3 kV
Single-core cables



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 5 flexible, IEC 60228
2	Insulation	XLPE, 2.0 mm nominal
3	Outer sheath	Halogen-free flame-retardant polyolefin (LSZH), 1.9 mm nominal, black

1. Construction

Designation	RZ1-K (AS) 1.8/3 kV (Cu / XLPE / LSZH)
Cores × cross-section	1 × 300 mm²
Conductor	Plain annealed copper, class 5 flexible, IEC 60228
Conductor wires	Max. wire Ø 0.51 mm
Conductor Ø (nominal)	22.8 mm
Insulation	XLPE, nominal 2.0 mm, min. at any point 1.70 mm
Ø over insulation	26.8 mm
Outer sheath	LSZH (halogen-free polyolefin), black, nominal 1.9 mm, min. at any point 1.51 mm

2. Dimensions and mass

Overall Ø (nominal)	30.6 mm (production tolerance ± 5 %)
Approx. mass	3,075 kg/km (307.5 kg per 100 m)
Copper content	2,667.0 kg/km

3. Electrical

Rated voltage U0/U (Um)	1.8/3 (3.6) kV AC
Routine test voltage	6.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.0654 Ω/km
Conductor resistance at 90 °C (DC)	0.0834 Ω/km
Insulation resistance at 90 °C (min)	0.26 MΩ·km (Ki = 3.67 MΩ·km)
Reactance, trefoil touching (approx.)	0.078 Ω/km at 50 Hz
Short-circuit current, 1 s	42.9 kA (k = 143, 90 → 250 °C)

4. Mechanical and thermal

Min. bending radius (fixed)	460 mm (15 × Ø)
Max. pulling force (on conductor)	4.5 kN (15 N/mm² × 300 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +90 °C; install at ≥ 0 °C
Fire performance	IEC 60332-3-24 cat. C; IEC 60754-1/-2 (halogen acid gas); IEC 61034-2 (smoke, transmittance ≥ 60 %)

5. Test requirements

Routine (every drum length)	Conductor resistance, 6.5 kV AC, 5 min voltage test
Sample (each batch)	Conductor construction, insulation and sheath thickness, hot set, tensile and elongation before/after ageing, overall Ø
Compound properties	XLPE and sheath limits per general data, page 3

6. Marking, packing and supply

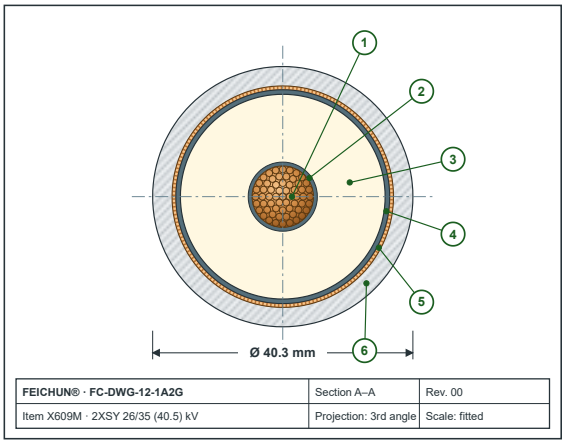
Cable marking	FEICHUN RZ1-K (AS) 1.8/3 kV 1x300 RZ1-K (AS) IEC 60502-1 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
19	1x300 — RZ1-K (AS) XLPE LSZH 1.8/3 kV flexible MV	2,672	**2,672**

Supply for this item: 2,672 m · approx. mass 8,216 kg · copper 7,126 kg

X609M 1x70/16

2XSY 26/35 (40.5) kV
MV cables 26/35 (40.5) kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 compacted stranded, longitudinally water-blocked, IEC 60228
2	Conductor screen	Extruded semi-conductive compound, 0.6 mm
3	Insulation	XLPE, 10.5 mm nominal (26/35 kV), triple-extruded in one pass
4	Insulation screen	Extruded semi-conductive compound, 0.7 mm
5	Metallic screen	Copper wires, 16 mm² with copper counter-helix tape
6	Outer sheath	PVC type ST2, 3.0 mm nominal, black

1. Construction

Designation	2XSY 26/35 (40.5) kV
Cores × cross-section	1 × 70 mm² with 16 mm² screen
Conductor	Plain annealed copper, class 2 compacted stranded, longitudinally water-blocked, IEC 60228
Min. number of wires	12
Conductor Ø (nominal)	9.5 mm
Conductor screen	Semi-conductive compound, 0.6 mm
Insulation	XLPE, nominal 10.5 mm, min. at any point 9.35 mm
Insulation screen	Semi-conductive compound, 0.7 mm; triple extrusion, dry-cured
Metallic screen	Plain copper wires, 16 mm², with copper counter-helix tape
Outer sheath	PVC type ST2, nominal 3.0 mm, min. at any point 2.45 mm, black

2. Dimensions and mass

Ø over insulation	31.7 mm
Overall Ø (nominal)	40.3 mm (production tolerance ± 5 %)
Approx. mass	2,050 kg/km (205.0 kg per 100 m)
Copper content	764.5 kg/km (conductor + screen)

3. Electrical

Rated voltage U0/U (Um)	26/35 (40.5) kV AC
Routine test voltage	65 kV AC (2.5 U0), 5 min
Partial discharge	≤ 10 pC at 45 kV (1.73 U0)
Impulse withstand (type test)	250 kV, 1.2/50 µs
Conductor resistance at 20 °C (max)	0.268 Ω/km
Conductor resistance at 90 °C (DC)	0.342 Ω/km
Screen resistance at 20 °C (max)	1.15 Ω/km
Capacitance (approx.)	0.128 µF/km; charging current 1.05 A/km per phase
Reactance, trefoil touching (approx.)	0.150 Ω/km at 50 Hz
Insulation resistance at 90 °C (min)	1.73 MΩ·km
Short-circuit current, 1 s	Conductor 10.0 kA; screen 2.3 kA

4. Mechanical and thermal

Min. bending radius	600 mm final position (15 × Ø); 810 mm during installation (20 × Ø)
Max. pulling force (on conductor)	3.5 kN (50 N/mm² × 70 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (5 s)
Ambient / installation	Operating −15 to +90 °C; install at ≥ 0 °C; IEC 60332-1-2

5. Test requirements

Routine (every drum length)	Conductor resistance, partial discharge, 65 kV AC voltage test 5 min, screen continuity
Sample (each batch)	Construction, layer thicknesses, hot set, tensile/elongation before and after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

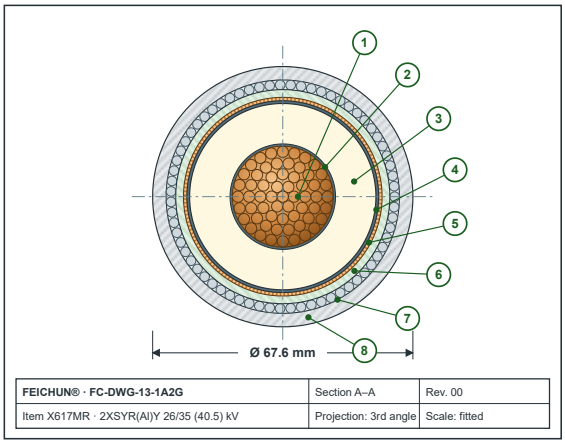
Cable marking	FEICHUN 2XSY 1x70/16 26/35 (40.5) kV IEC 60502-2 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
17	1x70/16 — 2XSY 26/35 (40.5) kV unarmoured	456	**456**

Supply for this item: 456 m · approx. mass 935 kg · copper 349 kg

X617MR 1x500/50

2XSYR(AI)Y 26/35 (40.5) kV
MV cables 26/35 (40.5) kV



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 2 compacted stranded, longitudinally water-blocked, IEC 60228
2	Conductor screen	Extruded semi-conductive compound, 0.6 mm
3	Insulation	XLPE, 10.5 mm nominal (26/35 kV), triple-extruded in one pass
4	Insulation screen	Extruded semi-conductive compound, 0.7 mm
5	Metallic screen	Copper wires, 50 mm² with copper counter-helix tape
6	Bedding	Extruded PVC, 2.0 mm nominal
7	Armour	Round aluminium wires, Ø 2.5 mm (67 wires), non-magnetic for single-core service
8	Outer sheath	PVC type ST2, 3.5 mm nominal, black

1. Construction

Designation	2XSYR(AI)Y 26/35 (40.5) kV
Cores × cross-section	1 × 500 mm² with 50 mm² screen
Conductor	Plain annealed copper, class 2 compacted stranded, longitudinally water-blocked, IEC 60228
Min. number of wires	53
Conductor Ø (nominal)	26.2 mm
Conductor screen	Semi-conductive compound, 0.6 mm
Insulation	XLPE, nominal 10.5 mm, min. at any point 9.35 mm
Insulation screen	Semi-conductive compound, 0.7 mm; triple extrusion, dry-cured
Metallic screen	Plain copper wires, 50 mm², with copper counter-helix tape
Bedding	PVC, nominal 2.0 mm
Armour	Round aluminium wires Ø 2.5 mm (67 wires), non-magnetic
Outer sheath	PVC type ST2, nominal 3.5 mm, min. at any point 2.88 mm, black

2. Dimensions and mass

Ø over insulation	48.4 mm
Overall Ø (nominal)	67.6 mm (production tolerance ± 5 %)
Approx. mass	8,725 kg/km (872.5 kg per 100 m)
Copper content	4,889.5 kg/km (conductor + screen)

3. Electrical

Rated voltage U0/U (Um)	26/35 (40.5) kV AC
Routine test voltage	65 kV AC (2.5 U0), 5 min
Partial discharge	≤ 10 pC at 45 kV (1.73 U0)
Impulse withstand (type test)	250 kV, 1.2/50 µs
Conductor resistance at 20 °C (max)	0.0366 Ω/km
Conductor resistance at 90 °C (DC)	0.0467 Ω/km
Screen resistance at 20 °C (max)	0.387 Ω/km
Capacitance (approx.)	0.244 µF/km; charging current 2.00 A/km per phase
Reactance, trefoil touching (approx.)	0.119 Ω/km at 50 Hz
Insulation resistance at 90 °C (min)	0.91 MΩ·km
Short-circuit current, 1 s	Conductor 71.5 kA; screen 7.1 kA

4. Mechanical and thermal

Min. bending radius	1010 mm final position (15 × Ø); 1350 mm during installation (20 × Ø)
Max. pulling force (on conductor)	25.0 kN (50 N/mm² × 500 mm²)
Conductor temperature	Continuous 90 °C; overload 130 °C; short-circuit 250 °C (5 s)
Ambient / installation	Operating −15 to +90 °C; install at ≥ 0 °C; IEC 60332-1-2

5. Test requirements

Routine (every drum length)	Conductor resistance, partial discharge, 65 kV AC voltage test 5 min, screen continuity
Sample (each batch)	Construction, layer thicknesses, hot set, tensile/elongation before and after ageing, overall Ø
Compound properties	XLPE and PVC limits per general data, page 3

6. Marking, packing and supply

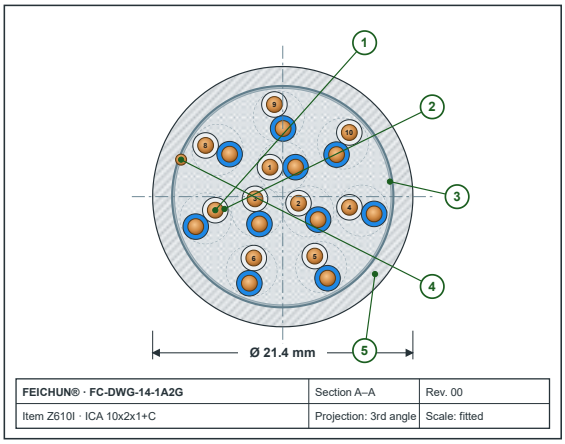
Cable marking	FEICHUN 2XSYR(AI)Y 1x500/50 26/35 (40.5) kV IEC 60502-2 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
18	1x500/50 — 2XSYR(AI)Y 26/35 (40.5) kV armoured	3,579	**3,579**

Supply for this item: 3,579 m · approx. mass 31,227 kg · copper 17,500 kg

Z610I 10x2x1

ICA 10x2x1+C
Instrumentation cable



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Tinned annealed copper, class 5 flexible, 1.0 mm², IEC 60228
2	Insulation	Polyethylene (PE), 0.4 mm nominal; a-core white, b-core blue
3	Pairs / collective screen	10 twisted pairs, numbered; Al/PET foil (100% coverage) over the laid-up pairs
4	Drain wire	Tinned copper drain wire, 0.5 mm², in contact with the foil
5	Outer sheath	PVC, 1.6 mm nominal, black

1. Construction

Designation	ICA 10x2x1+C flexible instrumentation cable
Pairs × cross-section	10 × 2 × 1.0 mm² (20 cores)
Conductor	Tinned annealed copper, class 5 flexible, IEC 60228
Conductor wires	Max. wire Ø 0.21 mm; conductor Ø 1.3 mm
Insulation	PE, nominal 0.4 mm; a-core white, b-core blue
Pair	Twisted pair, pairs numbered 1 to 10 by print
Collective screen	Al/PET foil, 100 % coverage, overlapped
Drain wire	Tinned copper 0.5 mm², under the foil
Outer sheath	PVC, nominal 1.6 mm, black

2. Dimensions and mass

Ø over screen	18.2 mm
Overall Ø (nominal)	21.4 mm (production tolerance ± 5 %)
Approx. mass	430 kg/km (43.0 kg per 100 m)
Copper content	182.2 kg/km

3. Electrical

Rated voltage U0/U	300/500 V AC
Test voltage (core/core, core/screen)	2 kV AC, 1 min
Conductor resistance at 20 °C (max)	20.0 Ω/km (loop 40.0 Ω/km)
Insulation resistance at 20 °C (min)	1,000 MΩ·km
Mutual capacitance at 800 Hz (max)	100 nF/km
Short-circuit current, 1 s	0.115 kA per conductor (k = 115, 70 → 160 °C)

4. Mechanical and thermal

Min. bending radius (fixed)	170 mm (8 × Ø)
Max. pulling force (on conductors)	0.3 kN (15 N/mm² × 20 mm²)
Conductor temperature	Continuous 70 °C
Ambient / installation	Operating −15 °C to +70 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 2 kV AC voltage test, insulation resistance, screen continuity
Sample (each batch)	Conductor and pair construction, insulation and sheath thickness, mutual capacitance, overall Ø

6. Marking, packing and supply

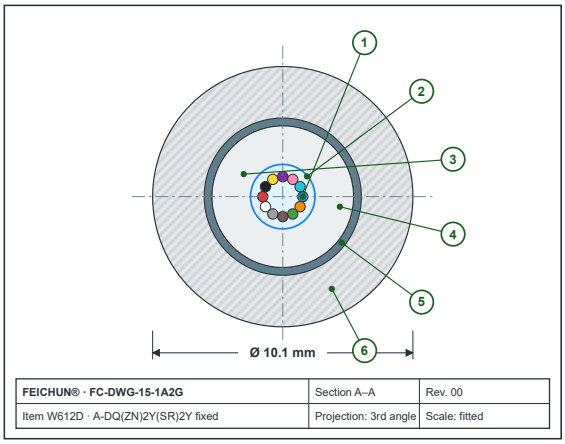
Cable marking	FEICHUN ICA 10x2x1+C 300/500 V 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
8	10 x 2 x 1 — ICA 10x2x1+C flexible instrumentation	258	**258**

Supply for this item: 258 m · approx. mass 111 kg · copper 47 kg

W612D SM 1x12 E9/125

A-DQ(ZN)2Y(SR)2Y fixed
Fibre-optic cables



Cross-section legend

Pos.	Element	Material / specification
1	Optical fibres	12 x single-mode G.652.D (E9/125 µm), IEC 60304 colour code
2	Loose tube	PBT loose tube, thixotropic gel-filled
3	Tensile / water-blocking	Glass yarn and water-swellable yarn (non-metallic tensile elements)
4	Inner sheath	Polyethylene (PE), black
5	Armour	Corrugated coated steel tape, overlapped (rodent and crush protection)
6	Outer sheath	UV-stabilised polyethylene (PE), black

1. Construction

Designation	A-DQ(ZN)2Y(SR)2Y fixed, outdoor
Fibre count	12 (1 tube × 12 fibres)
Fibre type	Single-mode G.652.D (E9/125 µm)
Loose tubes	1 × PBT, Ø 2.5 mm, thixotropic gel-filled
Central strength member	None; non-metallic glass yarn tensile elements
Water-blocking	Water-swellable yarn and tape
Inner sheath	PE, black, nominal 1.0 mm
Armour	Corrugated coated steel tape 0.15 mm, overlapped
Outer sheath	UV-stabilised PE, black, nominal 2.0 mm

2. Dimensions and mass

Overall Ø (nominal)	10.1 mm (production tolerance ± 0.5 mm)
Approx. mass	95 kg/km (9.5 kg per 100 m)
Fibre colour code	IEC 60304 (blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua)

3. Optical (G.652.D)

Attenuation at 1310 nm / 1550 nm	≤ 0.36 dB/km / ≤ 0.22 dB/km
Attenuation at 1625 nm	≤ 0.24 dB/km
Mode field diameter at 1310 nm	9.2 ± 0.4 µm
Cladding / coating Ø	125.0 ± 0.7 µm / 245 ± 5 µm
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 to 1324 nm
Chromatic dispersion at 1550 nm	≤ 18 ps/(nm·km)
PMD link design value	≤ 0.20 ps/√km
Fibre proof test	0.69 GPa

4. Mechanical and environmental

Max. tensile load (short / long term)	1,500 N / 600 N
Crush resistance (short term)	3,000 N/100 mm
Impact	20 N·m (IEC 60794-1-2-E4)
Min. bending radius	200 mm during installation (20 × Ø); 100 mm fixed (10 × Ø)
Temperature	Operating −30 °C to +70 °C; install at −10 °C to +50 °C
Water penetration	1 m head, 24 h, no leakage

5. Test requirements

Every drum	Fibre attenuation by OTDR at 1310 nm and 1550 nm; continuity
Sample (each batch)	Dimensions, tube and sheath thickness, tensile, crush, impact, temperature cycling and water penetration per IEC 60794-1-2

6. Marking, packing and supply

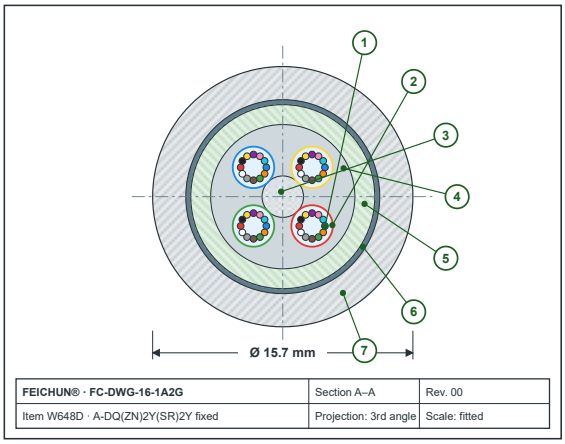
Cable marking	FEICHUN A-DQ(ZN)2Y(SR)2Y 1x12 SM G.652.D 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
9	SM 1x12 E9/125 µm — A-DQ(ZN)2Y(SR)2Y fixed	33	**200** MOQ 200 m

Supply for this item: 200 m · approx. mass 19 kg

W648D SM 4x12 E9/125

A-DQ(ZN)2Y(SR)2Y fixed
Fibre-optic cables



Cross-section legend

Pos.	Element	Material / specification
1	Optical fibres	4 x 12 = 48 single-mode G.652.D (E9/125 µm), IEC 60304 colour code
2	Loose tubes	4 gel-filled PBT loose tubes, colour-coded, SZ-stranded
3	Central strength member	Fibre-reinforced plastic (FRP) rod
4	Water-blocking	Water-swellable tape and yarn over the stranded core
5	Inner sheath	Polyethylene (PE), black
6	Armour	Corrugated coated steel tape, overlapped
7	Outer sheath	UV-stabilised polyethylene (PE), black

1. Construction

Designation	A-DQ(ZN)2Y(SR)2Y fixed, outdoor
Fibre count	48 (4 tubes × 12 fibres)
Fibre type	Single-mode G.652.D (E9/125 µm)
Loose tubes	4 × PBT, Ø 2.5 mm, thixotropic gel-filled, SZ-stranded
Central strength member	FRP rod Ø 2.5 mm
Water-blocking	Water-swellable yarn and tape
Inner sheath	PE, black, nominal 1.2 mm
Armour	Corrugated coated steel tape 0.15 mm, overlapped
Outer sheath	UV-stabilised PE, black, nominal 2.0 mm

2. Dimensions and mass

Overall Ø (nominal)	15.7 mm (production tolerance ± 0.5 mm)
Approx. mass	205 kg/km (20.5 kg per 100 m)
Fibre colour code	IEC 60304 (blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, aqua)

3. Optical (G.652.D)

Attenuation at 1310 nm / 1550 nm	≤ 0.36 dB/km / ≤ 0.22 dB/km
Attenuation at 1625 nm	≤ 0.24 dB/km
Mode field diameter at 1310 nm	9.2 ± 0.4 µm
Cladding / coating Ø	125.0 ± 0.7 µm / 245 ± 5 µm
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 to 1324 nm
Chromatic dispersion at 1550 nm	≤ 18 ps/(nm·km)
PMD link design value	≤ 0.20 ps/√km
Fibre proof test	0.69 GPa

4. Mechanical and environmental

Max. tensile load (short / long term)	2,000 N / 800 N
Crush resistance (short term)	3,000 N/100 mm
Impact	20 N·m (IEC 60794-1-2-E4)
Min. bending radius	315 mm during installation (20 × Ø); 155 mm fixed (10 × Ø)
Temperature	Operating −30 °C to +70 °C; install at −10 °C to +50 °C
Water penetration	1 m head, 24 h, no leakage

5. Test requirements

Every drum	Fibre attenuation by OTDR at 1310 nm and 1550 nm; continuity
Sample (each batch)	Dimensions, tube and sheath thickness, tensile, crush, impact, temperature cycling and water penetration per IEC 60794-1-2

6. Marking, packing and supply

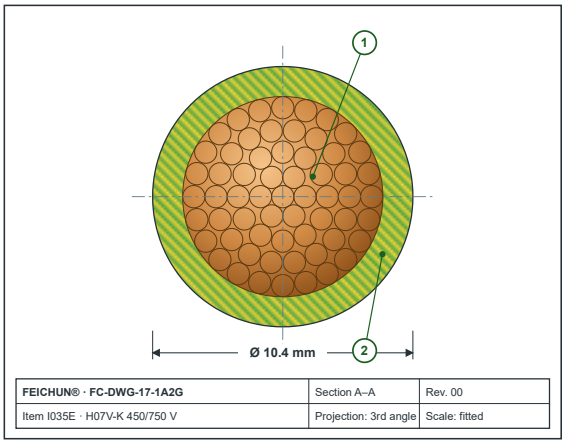
Cable marking	FEICHUN A-DQ(ZN)2Y(SR)2Y 4x12 SM G.652.D 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
10	SM 4x12 E9/125 µm — A-DQ(ZN)2Y(SR)2Y fixed	1,178	**1,178**

Supply for this item: 1,178 m · approx. mass 241 kg

I035E 1x35 (class 5) G/Y

H07V-K 450/750 V
Earthing conductors



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 5 flexible, IEC 60228
2	Insulation	PVC, 1.2 mm nominal, green/yellow

1. Construction

Designation	H07V-K 450/750 V — single-core green/yellow earthing conductor
Cores × cross-section	1 × 35 mm²
Conductor	Plain annealed copper, class 5 flexible, IEC 60228
Conductor wires	Max. wire Ø 0.41 mm; conductor Ø 8.0 mm
Insulation	PVC (TI1), nominal 1.2 mm, green/yellow
Standard basis	IEC 60227-3 / EN 50525-2-31 (H07V-K)

2. Dimensions and mass

Overall Ø (nominal)	10.4 mm (production tolerance ± 5 %)
Approx. mass	360 kg/km (36.0 kg per 100 m)
Copper content	311.2 kg/km

3. Electrical

Rated voltage	450/750 V AC
Routine test voltage	2.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.565 Ω/km
Conductor resistance at 70 °C (DC)	0.676 Ω/km
Insulation resistance at 70 °C (min)	As IEC 60227-3 / EN 50525-2-31
Short-circuit current, 1 s	4.0 kA (k = 115, 70 → 160 °C)

4. Mechanical and thermal

Min. bending radius	85 mm (8 × Ø)
Max. pulling force (on conductor)	0.53 kN (15 N/mm² × 35 mm²)
Conductor temperature	Continuous 70 °C; short-circuit 160 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +70 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 2.5 kV AC, 5 min voltage test
Sample (each batch)	Conductor construction, insulation thickness, tensile and elongation before/after ageing, overall Ø
Compound properties	PVC limits per general data, page 3

6. Marking, packing and supply

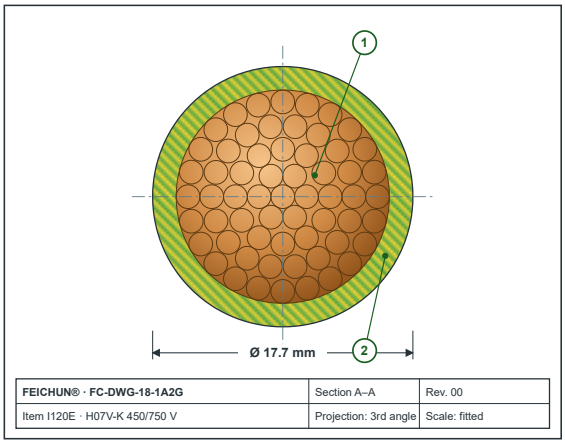
Cable marking	FEICHUN H07V-K 450/750 V 1x35 G/Y 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
11	Green/yellow PVC insulated copper wire 35 mm²	74	**200** MOQ 200 m

Supply for this item: 200 m · approx. mass 72 kg · copper 62 kg

I120E 1x120 (class 5) G/Y

H07V-K 450/750 V
Earthing conductors



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 5 flexible, IEC 60228
2	Insulation	PVC, 1.6 mm nominal, green/yellow

1. Construction

Designation	H07V-K 450/750 V — single-core green/yellow earthing conductor
Cores × cross-section	1 × 120 mm²
Conductor	Plain annealed copper, class 5 flexible, IEC 60228
Conductor wires	Max. wire Ø 0.51 mm; conductor Ø 14.5 mm
Insulation	PVC (TI1), nominal 1.6 mm, green/yellow
Standard basis	IEC 60227-3 / EN 50525-2-31 (H07V-K)

2. Dimensions and mass

Overall Ø (nominal)	17.7 mm (production tolerance ± 5 %)
Approx. mass	1,180 kg/km (118.0 kg per 100 m)
Copper content	1,066.8 kg/km

3. Electrical

Rated voltage	450/750 V AC
Routine test voltage	2.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.164 Ω/km
Conductor resistance at 70 °C (DC)	0.196 Ω/km
Insulation resistance at 70 °C (min)	As IEC 60227-3 / EN 50525-2-31
Short-circuit current, 1 s	13.8 kA (k = 115, 70 → 160 °C)

4. Mechanical and thermal

Min. bending radius	140 mm (8 × Ø)
Max. pulling force (on conductor)	1.80 kN (15 N/mm² × 120 mm²)
Conductor temperature	Continuous 70 °C; short-circuit 160 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +70 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 2.5 kV AC, 5 min voltage test
Sample (each batch)	Conductor construction, insulation thickness, tensile and elongation before/after ageing, overall Ø
Compound properties	PVC limits per general data, page 3

6. Marking, packing and supply

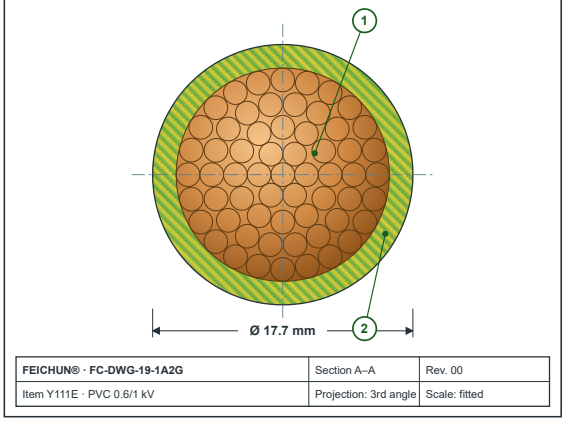
Cable marking	FEICHUN H07V-K 450/750 V 1x120 G/Y 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
12	Green/yellow PVC insulated copper wire 120 mm²	1,698	**1,698**

Supply for this item: 1,698 m · approx. mass 2,004 kg · copper 1,811 kg

Y111E 1x120 (class 5) G/Y

PVC 0.6/1 kV
Earthing conductors



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 5 flexible, IEC 60228
2	Insulation	PVC, 1.6 mm nominal, green/yellow

1. Construction

Designation	PVC 0.6/1 kV — single-core green/yellow earthing conductor
Cores × cross-section	1 × 120 mm²
Conductor	Plain annealed copper, class 5 flexible, IEC 60228
Conductor wires	Max. wire Ø 0.51 mm; conductor Ø 14.5 mm
Insulation	PVC, nominal 1.6 mm (IEC 60502-1 thickness), green/yellow
Standard basis	IEC 60502-1 (PVC insulation thickness)

2. Dimensions and mass

Overall Ø (nominal)	17.7 mm (production tolerance ± 5 %)
Approx. mass	1,180 kg/km (118.0 kg per 100 m)
Copper content	1,066.8 kg/km

3. Electrical

Rated voltage	0.6/1 kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.164 Ω/km
Conductor resistance at 70 °C (DC)	0.196 Ω/km
Insulation resistance at 70 °C (min)	0.003 MΩ·km (Ki = 0.037 MΩ·km)
Short-circuit current, 1 s	13.8 kA (k = 115, 70 → 160 °C)

4. Mechanical and thermal

Min. bending radius	140 mm (8 × Ø)
Max. pulling force (on conductor)	1.80 kN (15 N/mm² × 120 mm²)
Conductor temperature	Continuous 70 °C; short-circuit 160 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +70 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC, 5 min voltage test
Sample (each batch)	Conductor construction, insulation thickness, tensile and elongation before/after ageing, overall Ø
Compound properties	PVC limits per general data, page 3

6. Marking, packing and supply

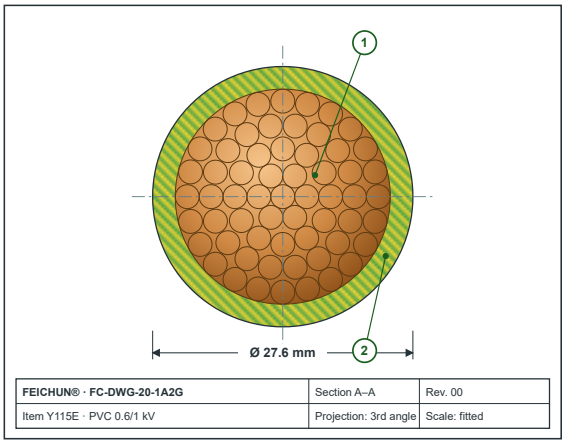
Cable marking	FEICHUN PVC 0.6/1 kV 1x120 G/Y 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
21	1x120 — green/yellow PVC earthing (PCS to PCS to battery container)	522	**522**

Supply for this item: 522 m · approx. mass 616 kg · copper 557 kg

Y115E 1x300 (class 5) G/Y

PVC 0.6/1 kV
Earthing conductors



Cross-section legend

Pos.	Element	Material / specification
1	Conductor	Annealed plain copper, class 5 flexible, IEC 60228
2	Insulation	PVC, 2.4 mm nominal, green/yellow

1. Construction

Designation	PVC 0.6/1 kV — single-core green/yellow earthing conductor
Cores × cross-section	1 × 300 mm²
Conductor	Plain annealed copper, class 5 flexible, IEC 60228
Conductor wires	Max. wire Ø 0.51 mm; conductor Ø 22.8 mm
Insulation	PVC, nominal 2.4 mm (IEC 60502-1 thickness), green/yellow
Standard basis	IEC 60502-1 (PVC insulation thickness)

2. Dimensions and mass

Overall Ø (nominal)	27.6 mm (production tolerance ± 5 %)
Approx. mass	2,935 kg/km (293.5 kg per 100 m)
Copper content	2,667.0 kg/km

3. Electrical

Rated voltage	0.6/1 kV AC
Routine test voltage	3.5 kV AC, 5 min
Conductor resistance at 20 °C (max)	0.0654 Ω/km
Conductor resistance at 70 °C (DC)	0.0783 Ω/km
Insulation resistance at 70 °C (min)	0.003 MΩ·km (Ki = 0.037 MΩ·km)
Short-circuit current, 1 s	34.5 kA (k = 115, 70 → 160 °C)

4. Mechanical and thermal

Min. bending radius	220 mm (8 × Ø)
Max. pulling force (on conductor)	4.50 kN (15 N/mm² × 300 mm²)
Conductor temperature	Continuous 70 °C; short-circuit 160 °C (max. 5 s)
Ambient / installation	Operating −15 °C to +70 °C; install at ≥ 0 °C
Flame test	IEC 60332-1-2 (single vertical cable)

5. Test requirements

Routine (every drum length)	Conductor resistance, 3.5 kV AC, 5 min voltage test
Sample (each batch)	Conductor construction, insulation thickness, tensile and elongation before/after ageing, overall Ø
Compound properties	PVC limits per general data, page 3

6. Marking, packing and supply

Cable marking	FEICHUN PVC 0.6/1 kV 1x300 G/Y 2026 — metre mark
Packing	Non-returnable wooden drum (ISPM 15), ends sealed with heat-shrink caps; MOQ 200 m per BOM line

BOM line	BOM description	Required (m)	Supplied (m)
22	1x300 — green/yellow PVC earthing	222	**222**

Supply for this item: 222 m · approx. mass 652 kg · copper 592 kg