DIN VDE 0250-812 · HEAVY RUBBER-SHEATHED FLEXIBLE CABLE | 0.66/1.14 kV | 8 sizes | CR rubber, low-temp | BARE COPPER | LOW-TEMPERATURE GRADE | SCREENED

NSSHCöu 3×+3E+2×2.5
0.66/1.14 kV

Heavy Rubber-Sheathed Flexible Cable 0.66/1.14 kV – 3 power cores + 3 split PE conductors + 2 pilot cores 2×2.5 mm². Low-temperature polychloroprene rubber sheath. Complete technical data sheet: construction, dimensions, weights, current ratings, voltage drop and installation guidance for 8 sizes.

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01 Application and Product Overview

NSSHCöu is the VDE designation of the heavy rubber-sheathed flexible cable (Gummischlauchleitung) for 0.6/1 kV. EPR-insulated cores of fine-wire class 5 copper are stranded together, bedded in a rubber inner sheath and protected by a thick, oil-resistant polychloroprene outer sheath that withstands crushing, abrasion and repeated bending. It is the established connection cable for mobile machines, portable switchgear and heavy tools on building sites, in quarries and in mines.

Design

The cores are insulated with a cross-linked EPR compound of type 3GI3, which permits a conductor temperature of 90 °C, and are stranded in layers with a short lay length. A rubber inner sheath fills the interstices and gives the stranded core a round, stable shape. The outer sheath is a polychloroprene compound of type 5GM5 to DIN VDE 0207-21. In the VDE designation the letters ö and u stand for oil resistance and flame retardancy; the suffix J marks a version with a green-yellow protective core, O a version without. In this datasheet J corresponds to the “G” configurations and O to the “×” configurations.

Typical applications

- Mobile switchgear, site distribution boards and portable generators on building sites and in quarries
- Feeder cables for electric tools, concrete pumps, mixers, crushers and conveyor drives that are moved regularly
- Underground and open-cast mining equipment that needs a robust connection cable of moderate length
- Cranes, hoists and loading equipment where the cable is dragged, stepped on or run over
- Machine tools and switch cabinets in dry, damp and wet areas, indoors and outdoors
- Converter-fed drives where the screened design limits electromagnetic interference
- Battery and DC-motor connections of industrial trucks and mining vehicles
- Cold-climate duty: sites, cold stores and open-cast operations where the cable is moved at temperatures down to 40 °C

8 sizes	0.66/1.14 kV	+90 °C	CR rubber, low-temp
Cross-section 25 – 185 mm²	Rated voltage U_0/U	Maximum conductor temperature	Sheath: CR rubber, low-temp

Key features

- Thick rubber double sheath (inner and outer) for high resistance to crushing, impact and abrasion
- EPR insulation rated for 90 °C at the conductor; short-circuit temperature 250 °C
- Oil-resistant to DIN EN 60811-404 and flame-retardant to IEC 60332-1-2
- Fine-wire class 5 conductors for flexibility and easy termination
- Suitable for outdoor use: resistant to weather, ozone and UV radiation

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- Cores identified to DIN VDE 0293-308; green-yellow PE core in the J versions
- 8 sizes from 25 to 185 mm²; weight from 2,510 to 8,700 kg/km; copper from 1,010 to 6,290 kg/km

Core layout and conductor

Three power cores and three split protective conductors in the outer interstices of the stranded core, laid with a short lay length. The power cores are colour-coded brown, black, grey. Two pilot cores of 2.5 mm² (blue, white) form a monitoring loop for earth-continuity relays. The conductors are bare annealed copper. Bare copper has the lowest conductor resistance of the class 5 range and is the usual choice for dry and damp indoor use. Where the cable is exposed to salt, sulphur or permanent moisture, the tinned version of the same cable is preferable.

Standard background

DIN VDE 0250-812 is the national standard for the NSSHöu heavy rubber-sheathed flexible cable. It fixes the conductor class, the insulation and sheath compounds, the wall thicknesses, the dimension limits and the routine and type tests. The harmonised H07RN-F cable covers lighter duty at 450/750 V; NSSHöu is the step up for 0.6/1 kV systems and for heavier mechanical loading.

The low-temperature grade of the sheath compound remains flexible down to 40 °C in motion and 50 °C in fixed installation, so the cable can be reeled and trailed on cold sites, in cold stores and in northern open-cast operations. The mechanical and electrical ratings are those of the standard grade; only the cold-flexing limit is extended.

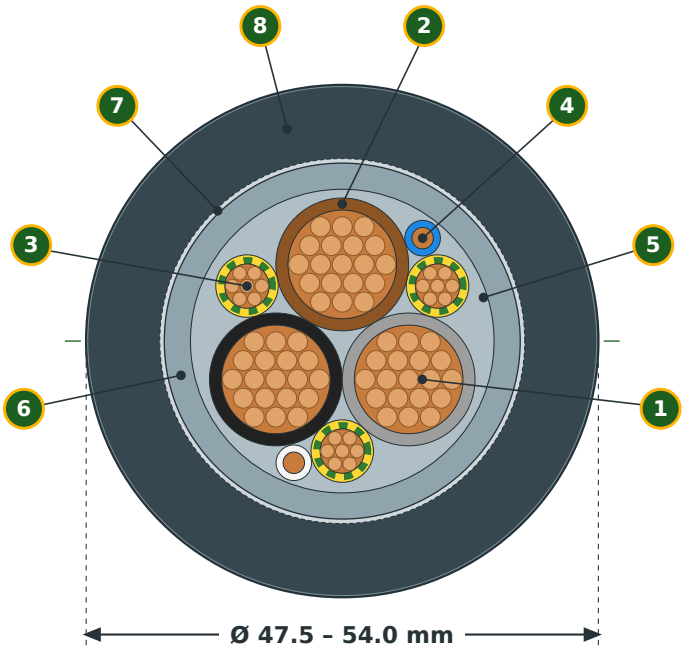
The overall screen is a tinned-copper wire braid between the inner and outer sheath. It reduces emitted and received interference in converter-fed drives and lets the cable meet the EMC requirements of the installation. A 360° termination of the screen at both ends gives the best effect; a screen that is terminated with a pigtail loses most of its benefit at high frequencies.

0.66/1.14 kV is the rating for the 1,000 V (1.14 kV) systems used in mining and in heavy industry; it has a slightly thicker insulation than the 0.6/1 kV version. The test voltage is 3 kV.

02 Construction

FEICHUN · CROSS-SECTION A–A · 0.66/1.14 kV

NSSHCöu
Sample size 3×70+3×35/3E+2×2.5 · Rev 0 · Illustrative, not to scale



No.	Component	Material
1	Conductor	Bare annealed fine-wire copper, class 5 to IEC 60228 / DIN VDE 0295
2	Insulation	EPR rubber, type 3GI3 (90 °C)
3	Split PE conductor	Class 5 copper, green-yellow insulation, laid in the outer interstices between the power cores
4	Pilot cores	Class 5 copper, blue and white insulation
5	Filler and binder tape	Rubber or compound filler with polyester binder tape
6	Inner sheath	Rubber compound, extruded over the stranded core
7	Overall screen	Bare copper-wire braid, coverage ≥ 85 %
8	Outer sheath	Polychloroprene (CR) rubber, low-temperature grade

The drawing shows size 3×70+3×35/3E+2×2.5. Other sizes have the same construction with scaled dimensions; the layout of every size is checked for non-overlap of all elements.

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Construction details

Conductor	Bare annealed fine-wire copper, class 5 to DIN VDE 0295 / IEC 60228
Insulation	EPR rubber, type 3GI3 (90 °C), maximum conductor temperature 90 °C
Core identification	Power cores brown, black, grey; protective conductors green-yellow
Stranding	Power cores, split PE conductors and auxiliary elements stranded together with a short lay length
Overall screen	Bare copper-wire braid, coverage ≥ 85 %, between inner and outer sheath
Inner sheath	Rubber compound; thickness about 2.6 mm at this size
Outer sheath	Polychloroprene (CR) rubber, low-temperature grade; thickness about 7.3 mm at this size

03 Electrical, Thermal and Mechanical Characteristics

Electrical data

Rated voltage U_0/U	0.66/1.14 kV AC
Test voltage	3 kV AC, 5 min
Maximum operating voltage, three-phase	1.2 kV
Maximum operating voltage, DC (core-earth / core-core)	1.0/1.8 kV
Current-carrying capacity	Design values by the method of DIN VDE 0298-4, free air, 30 °C ambient
Conductor resistance	Maximum at 20 °C, class 5, bare

Thermal and mechanical data

Maximum conductor temperature	+90 °C
Maximum temperature at short circuit	+250 °C (5 s maximum)
Ambient temperature, fixed installation	−50 °C to +80 °C
Ambient temperature, in motion	−40 °C to +80 °C
Minimum bending radius	Fixed: 3 × D (D ≤ 12 mm), 4 × D (D > 12 mm); moving: 3 × D (D ≤ 8 mm), 4 × D (D ≤ 12 mm), 5 × D (D > 12 mm) (DIN VDE 0298-3)
Maximum tensile load	15 N/mm² continuous on the total copper cross-section
Flame propagation	IEC 60332-1-2 / DIN EN 60332-1-2
Halogen-free	No (CR rubber, low-temp)
Mineral oil resistance	Resistant, DIN EN 60811-404
UV and ozone resistance	Resistant
Water	Damp and wet areas, spray water

04 Dimensions, Weights and Rated Data – 0.66/1.14 kV (8 sizes)

Type designation cores × mm²	FeiChun article no.	Cond. Ø max mm	Outer Ø min mm	Outer Ø max mm	Bend radius fixed mm	Bend radius moving mm	Weight approx. kg/km	Copper kg/km	Max. pull N	R_{20} max Ω/km	Rated current A	I_k (1 s) kA
3×25+3×25/3E+2×2.5	FC-NSSH-0280-01	6.5	41.0	46.5	186	232	2,510	1,010	1,120	0.780	131	3.58
3×35+3×25/3E+2×2.5	FC-NSSH-0280-02	7.7	41.5	47.0	188	235	3,010	1,300	1,580	0.554	162	5.00
3×50+3×25/3E+2×2.5	FC-NSSH-0280-03	9.2	43.5	49.5	198	248	3,610	1,730	2,250	0.386	202	7.15
3×70+3×35/3E+2×2.5	FC-NSSH-0280-04	10.8	47.5	54.0	216	270	3,790	2,400	3,150	0.272	250	10.01
3×95+3×50/3E+2×2.5	FC-NSSH-0280-05	12.6	52.0	59.5	238	298	4,610	3,260	4,280	0.206	302	13.59
3×120+3×70/3E+2×2.5	FC-NSSH-0280-06	14.2	57.5	65.5	262	328	5,800	4,180	5,400	0.161	350	17.16
3×150+3×70/3E+2×2.5	FC-NSSH-0280-07	15.8	62.5	71.0	284	355	6,900	5,040	6,750	0.129	402	21.45
3×185+3×95/3E+2×2.5	FC-NSSH-0280-08	17.6	71.0	80.5	322	402	8,700	6,290	8,320	0.106	459	26.45

Current-carrying capacity: design values by the method of DIN VDE 0298-4, free air, 30 °C ambient; for other ambient temperatures use the factors below and the multi-core reduction factor already included in the table. Copper weight = 9.6 kg/(km·mm²) of copper cross-section (VDE copper index). Pull force = 15 N/mm² × total copper cross-section of the power cores. Diameters, dimensions and weights are nominal design values calibrated to published type tables; they vary within manufacturing tolerances. Confirm critical dimensions before

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dimensioning reels, glands or festoon systems. Other sizes and configurations are produced to order.

Ambient temperature factors (conductor 90 °C)

°C	20	25	30	35	40	45	50	55	60
Factor	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71

Short-circuit current rating

I_k = 0.143 kA/mm² × cross-section of the power core (conductor 90 °C → 250 °C). For another duration t: $I_{k,t} = I_{k,1s} / \sqrt{t}$ (0.1 s ≤ t ≤ 5 s).

05 Voltage Drop, Losses and Short-Circuit Data

Voltage drop per 100 m of cable at rated current with the conductor at 90 °C, cos φ = 0.8 and reactance 0.08 Ω/km (three-phase). The percentage refers to a system voltage of 690 V. Loss is the total I²R loss of the loaded cores per 100 m. The short-circuit columns give the permitted current for four durations.

Type designation cores × mm²	Rated current A	R at 90 °C Ω/km	Voltage drop V / 100 m	Voltage drop % of 690 V	Loss kW / 100 m	I_k 0.1 s kA	I_k 0.5 s kA	I_k 1 s kA	I_k 3 s kA
3×25+3×25/3E+2×2.5	131	0.995	19.14	2.77	5.12	11.31	5.06	3.58	2.06
3×35+3×25/3E+2×2.5	162	0.706	17.20	2.49	5.56	15.83	7.08	5.00	2.89
3×50+3×25/3E+2×2.5	202	0.492	15.46	2.24	6.02	22.61	10.11	7.15	4.13
3×70+3×35/3E+2×2.5	250	0.347	14.09	2.04	6.50	31.65	14.16	10.01	5.78
3×95+3×50/3E+2×2.5	302	0.263	13.50	1.96	7.19	42.96	19.21	13.59	7.84
3×120+3×70/3E+2×2.5	350	0.205	12.87	1.86	7.54	54.26	24.27	17.16	9.91
3×150+3×70/3E+2×2.5	402	0.164	12.50	1.81	7.97	67.83	30.33	21.45	12.38
3×185+3×95/3E+2×2.5	459	0.135	12.41	1.80	8.54	83.66	37.41	26.45	15.27

06 Selection Guide and Sizing Aid

NSSHCöu 3×+3E+2×2.5 covers 8 sizes. The smallest, 3×25+3×25/3E+2×2.5, has an outer diameter of up to 46.5 mm and weighs about 2,510 kg/km; the largest, 3×185+3×95/3E+2×2.5, has an outer diameter of up to 80.5 mm and weighs about 8,700 kg/km, 3.5 times as much. Across the range the rated current rises from 131 A to 459 A at 30 °C and the fixed bending radius from 186 mm to 322 mm.

Example 1. A circuit draws 136 A continuously at 40 °C ambient temperature, in a group of two cables. Temperature factor 0.91, grouping factor 0.80: required table current = 136 / (0.91 × 0.80) = 187 A. The smallest suitable size is 3×50+3×25/3E+2×2.5 with 202 A.

Example 2. A circuit draws 308 A continuously at 35 °C ambient temperature, on its own. Temperature factor 0.96: required table current = 308 / (0.96) = 322 A. The smallest suitable size is 3×120+3×70/3E+2×2.5 with 350 A.

07 Engineering Profile by Size

Every size of NSSHCöu 3×+3E+2×2.5 with the dimensions that decide how it behaves in a circuit: layers, weight, copper share, heat, voltage drop, bending, termination and pull.

3×25+3×25/3E+2×2.5. This size has with a conductor of Ø 6.5 mm under 1.10 mm of insulation (core Ø 8.7 mm) and 2.2 mm inner and 6.9 mm outer sheath; outer diameter 41.0–46.5 mm, weight about 2,510 kg/km of which copper 1,010 kg/km (40 %). Rated current 131 A at 30 °C; at that load the voltage drop is 19.14 V per 100 m (2.77 % of 690 V) and the loss 5.12 kW per 100 m. Bending radius 186 mm fixed, 232 mm moving; gland M75, lug bolt M8. Short-circuit rating 3.58 kA for 1 s; permitted pull 1,120 N, free-hanging length 45 m.

3×35+3×25/3E+2×2.5. This size has with a conductor of Ø 7.6 mm under 1.10 mm of insulation (core Ø 9.8 mm) and 2.3 mm inner and 6.5 mm outer sheath; outer diameter 41.5–47.0 mm, weight about 3,010 kg/km of which copper 1,300 kg/km (43 %). Rated current 162 A at 30 °C; at that load the voltage drop is 17.20 V per 100 m (2.49 % of 690 V) and the loss 5.56 kW per 100 m. Bending radius 188 mm fixed, 235 mm moving; gland M75, lug bolt M8. Short-circuit rating 5.00 kA for 1 s; permitted pull 1,580 N, free-hanging length 53 m.

3×50+3×25/3E+2×2.5. This size has with a conductor of Ø 9.1 mm under 1.20 mm of insulation (core Ø 11.5 mm) and 2.4 mm inner and 6.7 mm outer sheath; outer diameter 43.5–49.5 mm, weight about 3,610 kg/km of which copper 1,730 kg/km (48 %). Rated current 202 A at 30 °C; at that load the voltage drop is 15.46 V per 100 m (2.24 % of 690 V) and the loss 6.02 kW per 100 m. Bending radius 198 mm fixed, 248 mm moving; gland M75, lug bolt M10. Short-circuit rating 7.15 kA for 1 s; permitted pull 2,250 N, free-hanging length 63 m.

3×70+3×35/3E+2×2.5. This size has with a conductor of Ø 10.8 mm under 1.20 mm of insulation (core Ø 13.2 mm) and 2.6 mm inner and 7.3 mm outer sheath; outer diameter 47.5–54.0 mm, weight about 3,790 kg/km of which copper 2,400 kg/km (63 %). Rated current 250 A at 30 °C; at that load the voltage drop is 14.09 V per 100 m (2.04 % of 690 V) and the loss 6.50 kW per 100 m. Bending radius 216 mm fixed, 270 mm moving; gland M75, lug bolt M10.

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Short-circuit rating 10.01 kA for 1 s; permitted pull 3,150 N, free-hanging length 84 m.

3×95+3×50/3E+2×2.5. This size has with a conductor of Ø 12.6 mm under 1.30 mm of insulation (core Ø 15.2 mm) and 2.8 mm inner and 8.0 mm outer sheath; outer diameter 52.0–59.5 mm, weight about 4,610 kg/km of which copper 3,260 kg/km (71 %). Rated current 302 A at 30 °C; at that load the voltage drop is 13.50 V per 100 m (1.96 % of 690 V) and the loss 7.19 kW per 100 m. Bending radius 238 mm fixed, 298 mm moving; gland M85, lug bolt M12. Short-circuit rating 13.59 kA for 1 s; permitted pull 4,280 N, free-hanging length 94 m.

3×120+3×70/3E+2×2.5. This size has with a conductor of Ø 14.1 mm under 1.30 mm of insulation (core Ø 16.7 mm) and 3.0 mm inner and 8.9 mm outer sheath; outer diameter 57.5–65.5 mm, weight about 5,800 kg/km of which copper 4,180 kg/km (72 %). Rated current 350 A at 30 °C; at that load the voltage drop is 12.87 V per 100 m (1.86 % of 690 V) and the loss 7.54 kW per 100 m. Bending radius 262 mm fixed, 328 mm moving; gland M90, lug bolt M12. Short-circuit rating 17.16 kA for 1 s; permitted pull 5,400 N, free-hanging length 94 m.

3×150+3×70/3E+2×2.5. This size has with a conductor of Ø 15.8 mm under 1.60 mm of insulation (core Ø 19.0 mm) and 3.4 mm inner and 8.8 mm outer sheath; outer diameter 62.5–71.0 mm, weight about 6,900 kg/km of which copper 5,040 kg/km (73 %). Rated current 402 A at 30 °C; at that load the voltage drop is 12.50 V per 100 m (1.81 % of 690 V) and the loss 7.97 kW per 100 m. Bending radius 284 mm fixed, 355 mm moving; gland M90, lug bolt M12. Short-circuit rating 21.45 kA for 1 s; permitted pull 6,750 N, free-hanging length 99 m.

3×185+3×95/3E+2×2.5. This size has with a conductor of Ø 17.5 mm under 1.80 mm of insulation (core Ø 21.1 mm) and 3.7 mm inner and 10.6 mm outer sheath; outer diameter 71.0–80.5 mm, weight about 8,700 kg/km of which copper 6,290 kg/km (72 %). Rated current 459 A at 30 °C; at that load the voltage drop is 12.41 V per 100 m (1.80 % of 690 V) and the loss 8.54 kW per 100 m. Bending radius 322 mm fixed, 402 mm moving; gland special, lug bolt M16. Short-circuit rating 26.45 kA for 1 s; permitted pull 8,320 N, free-hanging length 97 m.

Averaged over all sizes copper makes up 65 % of the cable weight; the share rises from 40 % at 3×25+3×25/3E+2×2.5 to 72 % at 3×185+3×95/3E+2×2.5, which is why the larger sizes are costed mostly on the copper market price.

08 Construction Dimensions by Size

Wall thicknesses and diameters of the layers at each size, taken from the validated cross-section layout; the overall diameter in section 04 is the sum of these layers within tolerance. The insulation wall follows the voltage class 0.66/1.14 kV.

Type designation cores × mm²	Conductor Ø mm	Core Ø over insulation, mm	Insulation wall mm	Laid-up core Ø mm	Inner sheath mm	Outer sheath mm	Screen + braid mm	Sheath share of Ø, %
3×25+3×25/3E+2×2.5	6.45	8.65	1.10	24.4	2.22	6.89	0.45	44
3×35+3×25/3E+2×2.5	7.63	9.83	1.10	25.7	2.30	6.49	0.45	42
3×50+3×25/3E+2×2.5	9.12	11.52	1.20	27.5	2.42	6.74	0.45	41
3×70+3×35/3E+2×2.5	10.79	13.19	1.20	30.2	2.60	7.31	0.45	41
3×95+3×50/3E+2×2.5	12.57	15.17	1.30	33.3	2.81	7.95	0.45	40
3×120+3×70/3E+2×2.5	14.13	16.73	1.30	36.7	3.03	8.86	0.45	40
3×150+3×70/3E+2×2.5	15.80	19.00	1.60	41.5	3.36	8.78	0.45	38
3×185+3×95/3E+2×2.5	17.55	21.15	1.80	46.2	3.66	10.62	0.45	39

09 Termination Planning (indicative)

Type designation cores × mm²	Outer Ø or W × H mm	Cable gland thread	Lug / ferrule bolt	Strip length mm	Straight length behind gland, mm
3×25+3×25/3E+2×2.5	46.5	M75	M8	14	95
3×35+3×25/3E+2×2.5	47.0	M75	M8	16	95
3×50+3×25/3E+2×2.5	49.5	M75	M10	19	100
3×70+3×35/3E+2×2.5	54.0	M75	M10	26	110
3×95+3×50/3E+2×2.5	59.5	M85	M12	31	120
3×120+3×70/3E+2×2.5	65.5	M90	M12	35	130
3×150+3×70/3E+2×2.5	71.0	M90	M12	41	140
3×185+3×95/3E+2×2.5	80.5	special	M16	47	160

Gland threads, lug bolts and strip lengths are planning guides computed from the dimensions above; confirm them with the accessory manufacturer.

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10 Comparison with Related Variants at Size 3×70+3×35/3E+2×2.5

Variant	Differs in	Outer Ø / H mm	Weight kg/km	Pull N	Current A
This datasheet NSSHCöu 3×+3E+2×2.5 0.66/1.14 kV	–	54.0	3,790	3,150	250
NSSHCöu 3×+3E+2×1.5 0.66/1.14 kV 3×70+3×35/3E+2×1.5	core configuration	52.5 (-3%)	3,670 (-3%)	3,150 (+0%)	250 (+0%)
NSSHCöu 3×+3E 0.66/1.14 kV 3×70+3×35/3E	core configuration	52.5 (-3%)	3,640 (-4%)	3,150 (+0%)	250 (+0%)
NSSHCöu 3×+3E+2×2.5 0.66/1.14 kV 3×70+3×35/3E+2×2.5	tinned vs bare copper	54.0 (+0%)	3,790 (+0%)	3,150 (+0%)	247 (-1%)
NSSHCöu 3×+3E+2×2.5 0.66/1.14 kV 3×70+3×35/3E+2×2.5	low-temperature sheath	54.0 (+0%)	3,790 (+0%)	3,150 (+0%)	250 (+0%)
NSSHöu 3×+3E+2×2.5 0.66/1.14 kV 3×70+3×35/3E+2×2.5	overall screen	53.0 (-2%)	3,680 (-3%)	3,150 (+0%)	250 (+0%)
NSSHCöu 3×+3E+2×2.5 0.6/1 kV 3×70+3×35/3E+2×2.5	voltage class	53.0 (-2%)	3,730 (-2%)	3,150 (+0%)	250 (+0%)
NSSHCöu 12G 0.66/1.14 kV 12G4	core configuration	35.0 (-35%)	1,360 (-64%)	720 (-77%)	22 (-91%)
NSSHCöu 10G 0.66/1.14 kV 10G4	core configuration	33.5 (-38%)	1,300 (-66%)	600 (-81%)	24 (-90%)

Percentages show the change against this datasheet; where a variant does not offer the exact size, the nearest listed size is used.

11 Standards and Testing

Standard	Scope
DIN VDE 0250-812	Rubber-insulated flexible cable NSSHöu, 0.6/1 kV
DIN VDE 0295 / IEC 60228	Conductors, class 5
DIN VDE 0207-20 / -21	Rubber insulation and sheath compounds (3GI3, 5GM5)
DIN VDE 0293-308	Core identification
DIN VDE 0298-3 / -4	Application: bending, tensile load; current-carrying capacity
DIN EN 60811-404	Mineral oil resistance of sheath
DIN EN 60332-1-2 / IEC 60332-1-2	Flame propagation, single cable

Routine and type tests

- AC voltage test on every drum length (routine test): 3 kV, 5 min
- Conductor resistance and checks of dimensions, insulation thickness and sheath thickness
- Continuity of conductors and protective earth
- Flame propagation test (IEC 60332-1-2) and mineral-oil resistance on type-test samples

Test documentation: every delivery is accompanied by a test certificate from FeiChun’s own laboratory. Third-party witnessed tests can be arranged at the buyer’s cost.

The design follows DIN VDE 0250-812. This datasheet does not claim the VDE approval mark; mark or approval certificates, where required for a project, are arranged on request and apply only to the type tested.

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12 Installation, Marking and Delivery

Installation guidance

- Do not exceed the permissible tensile load of 15 N/mm² of the total copper cross-section; use a cable grip that holds the sheath, never the conductors.
- Keep the bending radius at or above the values in section 04; for free movement use 3 × D up to 8 mm, 4 × D up to 12 mm and 5 × D above 12 mm outer diameter.
- Lay the cable without kinks and unwind it completely from the reel before loading it above 50 % of the rated current.
- Use cable glands whose clamping range covers the maximum outer diameter and seal the cable entry to the enclosure rating.
- Protect the cable against permanent running-over by vehicles; where this cannot be avoided use cable ramps or protective ducts.
- Leave the green-yellow protective core slightly longer than the power cores, so that it is the last to be loaded if the cable is pulled at the terminal.

Sheath marking

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FEICHUN NSSHCöu [cross-section] 0.66/1.14 kV [year] [serial no.] [metre mark]
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Packing and delivery

Drum	Steel or fumigated wooden drums; cable ends sealed with heat-shrink caps
Delivery length	As ordered, in one continuous length without joints
Lead time	2–3 weeks after technical approval
Warranty	At least 3 years against manufacturing defects
Drum label	Type, cross-section, length, gross/net weight, batch no., drum no.

Ordering information

Order example: NSSHCöu 3×70+3×35/3E+2×2.5 0.66/1.14 kV – 500 m on one drum. When requesting a quotation, state the cable type, configuration, cross-section, voltage, conductor (bare copper), length per piece, required standards and installation conditions.

13 Certification and Quality

All cable is subject to FeiChun’s quality control, with routine testing over 100 % of the delivered length. Declarations of conformity, type-test reports and third-party tests (for example for a mine, a tunnel or a rail project) are provided per project requirement; copies of the records are available on request. FeiChun holds CE, EAC and UKCA documentation for certain product groups. Whether a certificate covers this specific construction must be confirmed with FeiChun before it is quoted in a tender.

VDE, mine-specific (for example coal-mine safety marks, MSHA) and ATEX / IECEx approvals are not implied by this datasheet. They depend on the project, the machine and the country and are arranged with the end user.

14 Related Datasheets and Frequently Asked Questions

Variants of this cable with a different configuration, conductor, temperature grade, screen or voltage. All datasheets are PDF files.

- NSSHCöu 3×+3E+2×1.5 0.66/1.14 kV – core configuration, CR rubber, low-temp
- NSSHCöu 3×+3E 0.66/1.14 kV – core configuration, CR rubber, low-temp
- NSSHCöu 3×+3E+2×2.5 0.66/1.14 kV – tinned vs bare copper, CR rubber, low-temp, tinned
- NSSHCöu 3×+3E+2×2.5 0.66/1.14 kV – low-temperature sheath, CR rubber
- NSSHöu 3×+3E+2×2.5 0.66/1.14 kV – overall screen, CR rubber, low-temp
- NSSHCöu 3×+3E+2×2.5 0.6/1 kV – voltage class, CR rubber, low-temp
- NSSHCöu 12G 0.66/1.14 kV – core configuration, CR rubber, low-temp
- NSSHCöu 10G 0.66/1.14 kV – core configuration, CR rubber, low-temp

Overview of all NSSHöu datasheets: NSSHöu Heavy Rubber-Sheathed Flexible Cables

Frequently asked questions

Which cable is meant by NSSHöu?
NSSHöu is the VDE designation of the heavy rubber-sheathed flexible cable to DIN VDE 0250-812, rated 0.6/1 kV, with EPR insulation and a polychloroprene sheath.

What is the difference between the -J and the -O version?
The J version contains a green-yellow protective core; the O version does not. NSSHCöu 3×+3E+2×2.5 is the version.

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What sizes are available for NSSHCöu 3×+3E+2×2.5?
8 sizes from 25 to 185 mm². The outer dimension of the largest size, 3×185+3×95/3E+2×2.5, is 80.5 mm and the weight is about 8,700 kg/km.

What current can 3×95+3×50/3E+2×2.5 carry?
302 A in free air at 30 °C ambient, with the conductor at 90 °C. Other temperatures and grouping change the value; use the factors in section 04.

15 Trademark Notice and Intellectual Property

Cable type designations such as NSSHCöu are standardised, descriptive designations defined in DIN VDE and EN standards; they are used to state which standard this product is designed to. References to other manufacturers' trade names, where made, serve only for technical comparison; FeiChun Cables is not affiliated with them.

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Technical and commercial contacts

Anhui FeiChun Special Cable Co., Ltd.
International Business Department
Park No. 1, Private Science and Technology Park, Hefei National Economic and Technological Development Zone, Hefei, Anhui, China
Technical support: Tech@feichuncables.com
Zihao Yang, Global Sales Manager: zihao.yang@feichuncables.com
WhatsApp: +86 138 5512 3218
Web: www.feichuncables.com

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