HARMONISED FLEXIBLE CABLE 450/750 V · DIN VDE 0282 / EN 50525 | 450/750 V | 10 sizes | halogen-free FRNC | TINNED COPPER

H07ZZ-F 3G 450/750 V

Halogen-Free Flexible Cable 450/750 V 450/750 V – 3 cores of equal cross-section in concentric layers with a short lay length. Halogen-free FRNC sheath. Complete technical data sheet: construction, dimensions, weights, current ratings, voltage drop and installation guidance for 10 sizes.

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01 Application and Product Overview

H07ZZ-F is the harmonised halogen-free flexible cable for 450/750 V. Cross-linked halogen-free insulation and a halogen-free flame-retardant sheath give a flexible, oil-resistant cable that does not release halogen acids in a fire, for installations where people or equipment must be protected.

Design

The conductors are class 5 fine-wire copper, bare or tinned. The cores are insulated with a cross-linked halogen-free compound for 90 °C at the conductor. The sheath is a halogen-free flame-retardant elastomer; multi-core cables from 7 cores and cables from 10 mm² carry an inner sheath. The type is covered by DIN EN 50525-3-21.

Typical applications

- Exhibition halls, theatres and venues with high safety requirements
- Public transport, tunnels and underground installations
- Data centres, control rooms and clean production areas
- Ships and offshore installations where halogen-free cables are specified
- Mobile power distribution for events in enclosed buildings
- Machine connections in plants with halogen-free requirements
- Cable for hospitals, airports and schools
- General connections for medium mechanical stress in damp rooms

10 sizes	450/750 V	+90 °C	Halogen-free
Cross-section 1 – 50 mm²	Rated voltage U_0/U	Maximum conductor temperature	Sheath: halogen-free FRNC

Key features

- Halogen-free insulation and sheath (IEC 60754-1/-2)
- Rated 90 °C at the conductor; short-circuit temperature 250 °C
- Rated voltage 450/750 V, test voltage 2.5 kV
- Class 5 conductors for flexible use
- Flame-retardant to IEC 60332-1-2; low smoke development
- Oil-resistant sheath
- 10 sizes from 1 to 50 mm²; weight from 126 to 2,450 kg/km; copper from 29 to 1,440 kg/km

Core layout and conductor

3 cores of equal cross-section in concentric layers with a short lay length. Core colours: green-yellow, blue, brown (DIN VDE 0293-308); the green-yellow core is the protective conductor. The three-core layout feeds a three-phase motor without neutral in a TN-S system. The conductors are tinned: each copper wire carries a thin tin coating. Tinning protects the copper against oxidation and corrosion in damp, salty or sulphurous atmospheres and keeps the conductor solderable, which is an advantage in outdoor, marine and mining installations. The resistance limits of tinned class 5 conductors are marginally higher than for bare copper; the R_{20} column shows the tinned values.

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Standard background

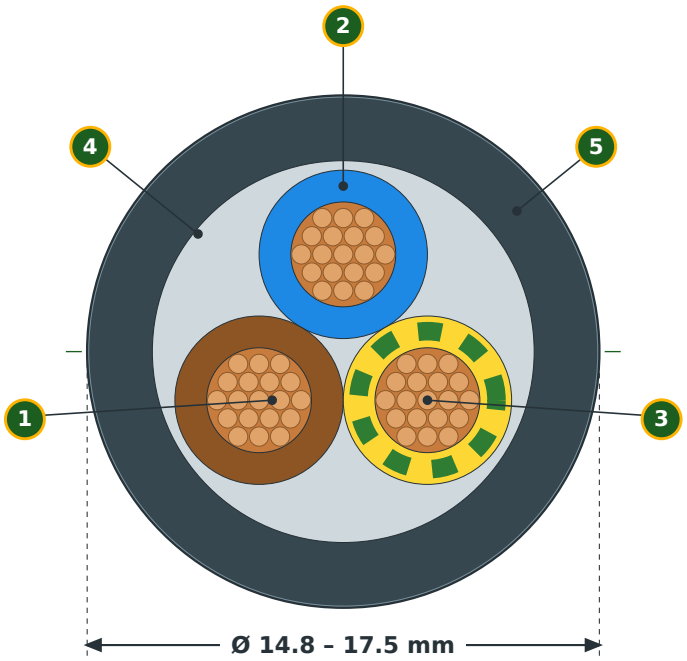
H07ZZ-F and H05ZZ-F are harmonised halogen-free types covered by DIN EN 50525-3-21 (VDE 0285-525-3-21). ZZ identifies the thermoset halogen-free insulation and sheath.

450/750 V is the common rating for industrial and building-site distribution on 400 V systems and allows a margin for DC and rectified supplies. The test voltage is 2.5 kV.

02 Construction

FEICHUN · CROSS-SECTION A-A · 450/750 V

H07ZZ-F
Sample size 3G6 · Rev 0 · Illustrative, not to scale



No.	Component	Material
1	Conductor	Tinned annealed fine-wire copper, class 5 to IEC 60228 / DIN VDE 0295
2	Insulation	Halogen-free cross-linked compound, type HX
3	Protective (PE) core	Green-yellow insulation, same cross-section as the power cores
4	Filler and binder tape	Halogen-free filler with polyester binder tape
5	Outer sheath	Halogen-free flame-retardant elastomer, type 5GM5-HF (FRNC)

The drawing shows size 3G6. Other sizes have the same construction with scaled dimensions; the layout of every size is checked for non-overlap of all elements.

Construction details

Conductor	Tinned annealed fine-wire copper, class 5 to DIN VDE 0295 / IEC 60228
Insulation	Halogen-free cross-linked compound, type HX, maximum conductor temperature 90 °C
Core identification	Green-yellow, blue, brown to DIN VDE 0293-308
Stranding	Cores in concentric layers with a short lay length
Outer sheath	Halogen-free flame-retardant elastomer, type 5GM5-HF (FRNC); thickness about 2.1 mm at this size

03 Electrical, Thermal and Mechanical Characteristics

Electrical data

Rated voltage U_0/U	450/750 V AC
Test voltage	2.5 kV AC, 5 min
Maximum operating voltage, three-phase	825 V
Maximum operating voltage, DC (core-earth / core-core)	0.45/0.75 kV (DC 0.675/1.1 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, tinned

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Thermal and mechanical data

Maximum conductor temperature	+90 °C
Maximum temperature at short circuit	+250 °C (5 s maximum)
Ambient temperature, fixed installation	−40 °C to +90 °C
Ambient temperature, in motion	−25 °C to +90 °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	Yes (insulation and sheath), IEC 60754-1/-2
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 – 450/750 V (10 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
3G1	FC-H07Z-0918-01	1.4	8.2	9.9	30	40	126	29	45	20.0	17	0.143
3G1.5	FC-H07Z-0918-02	1.7	9.2	11.1	33	44	166	43	68	13.7	22	0.214
3G2.5	FC-H07Z-0918-03	2.2	10.8	13.1	52	66	226	72	112	8.21	31	0.357
3G4	FC-H07Z-0918-04	2.7	13.1	15.7	63	78	262	115	180	5.09	41	0.572
3G6	FC-H07Z-0918-05	3.3	14.8	17.5	70	88	367	173	270	3.39	53	0.858
3G10	FC-H07Z-0918-06	4.1	19.5	22.7	91	114	660	288	450	1.95	73	1.43
3G16	FC-H07Z-0918-07	5.2	22.5	26.0	104	130	980	460	720	1.24	98	2.29
3G25	FC-H07Z-0918-08	6.5	27.5	31.0	124	155	1,510	720	1,120	0.795	130	3.58
3G35	FC-H07Z-0918-09	7.7	28.5	32.5	130	162	1,770	1,010	1,580	0.565	160	5.00
3G50	FC-H07Z-0918-10	9.2	33.0	37.5	150	188	2,450	1,440	2,250	0.393	200	7.15

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. 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 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).

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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 400 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 400 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
3G1	17	25.5	60.21	15.05	2.21	0.452	0.202	0.143	0.083
3G1.5	22	17.5	53.44	13.36	2.54	0.678	0.303	0.214	0.124
3G2.5	31	10.5	45.23	11.31	3.02	1.13	0.506	0.357	0.206
3G4	41	6.49	37.21	9.30	3.27	1.81	0.809	0.572	0.330
3G6	53	4.32	32.19	8.05	3.64	2.71	1.21	0.858	0.495
3G10	73	2.49	25.76	6.44	3.98	4.52	2.02	1.43	0.826
3G16	98	1.58	22.29	5.57	4.56	7.24	3.24	2.29	1.32
3G25	130	1.01	19.34	4.84	5.14	11.31	5.06	3.58	2.06
3G35	160	0.720	17.30	4.33	5.53	15.83	7.08	5.00	2.89
3G50	200	0.501	15.55	3.89	6.01	22.61	10.11	7.15	4.13

06 Selection Guide and Sizing Aid

H07ZZ-F 3G covers 10 sizes. The smallest, 3G1, has an outer diameter of up to 9.9 mm and weighs about 126 kg/km; the largest, 3G50, has an outer diameter of up to 37.5 mm and weighs about 2,450 kg/km, 19.4 times as much. Across the range the rated current rises from 17 A to 200 A at 30 °C and the fixed bending radius from 30 mm to 150 mm.

Example 1. A circuit draws 28 A continuously at 40 °C ambient temperature, in a group of two cables. Temperature factor 0.91, grouping factor 0.80: required table current = 28 / (0.91 × 0.80) = 39 A. The smallest suitable size is 3G4 with 41 A.

Example 2. A circuit draws 86 A continuously at 35 °C ambient temperature, on its own. Temperature factor 0.96: required table current = 86 / (0.96) = 90 A. The smallest suitable size is 3G16 with 98 A.

07 Engineering Profile by Size

Every size of H07ZZ-F 3G with the dimensions that decide how it behaves in a circuit: layers, weight, copper share, heat, voltage drop, bending, termination and pull.

3G1. This size has with a conductor of Ø 1.3 mm under 0.70 mm of insulation (core Ø 2.7 mm) and an outer sheath of 1.2 mm; outer diameter 8.2–9.9 mm, weight about 126 kg/km of which copper 29 kg/km (23 %). Rated current 17 A at 30 °C; at that load the voltage drop is 60.21 V per 100 m (15.05 % of 400 V) and the loss 2.21 kW per 100 m. Bending radius 30 mm fixed, 40 mm moving; gland M16, lug bolt M5. Short-circuit rating 0.143 kA for 1 s; permitted pull 45 N, free-hanging length 36 m.

3G1.5. This size has with a conductor of Ø 1.7 mm under 0.80 mm of insulation (core Ø 3.3 mm) and an outer sheath of 1.3 mm; outer diameter 9.2–11.1 mm, weight about 166 kg/km of which copper 43 kg/km (26 %). Rated current 22 A at 30 °C; at that load the voltage drop is 53.44 V per 100 m (13.36 % of 400 V) and the loss 2.54 kW per 100 m. Bending radius 33 mm fixed, 44 mm moving; gland M20, lug bolt M5. Short-circuit rating 0.214 kA for 1 s; permitted pull 68 N, free-hanging length 41 m.

3G2.5. This size has with a conductor of Ø 2.1 mm under 0.90 mm of insulation (core Ø 3.9 mm) and an outer sheath of 1.4 mm; outer diameter 10.8–13.1 mm, weight about 226 kg/km of which copper 72 kg/km (32 %). Rated current 31 A at 30 °C; at that load the voltage drop is 45.23 V per 100 m (11.31 % of 400 V) and the loss 3.02 kW per 100 m. Bending radius 52 mm fixed, 66 mm moving; gland M25, lug bolt M5. Short-circuit rating 0.357 kA for 1 s; permitted pull 112 N, free-hanging length 50 m.

3G4. This size has with a conductor of Ø 2.7 mm under 1.00 mm of insulation (core Ø 4.7 mm) and an outer sheath of 1.8 mm; outer diameter 13.1–15.7 mm, weight about 262 kg/km of which copper 115 kg/km (44 %). Rated current 41 A at 30 °C; at that load the voltage drop is 37.21 V per 100 m (9.30 % of 400 V) and the loss 3.27 kW per 100 m. Bending radius 63 mm fixed, 78 mm moving; gland M25, lug bolt M5. Short-circuit rating 0.572 kA for 1 s; permitted pull 180 N, free-hanging length 70 m.

3G6. This size has with a conductor of Ø 3.3 mm under 1.00 mm of insulation (core Ø 5.3 mm) and an outer sheath of 2.1 mm; outer diameter 14.8–17.5 mm, weight about 367 kg/km of which copper 173 kg/km (47 %). Rated current 53 A at 30 °C; at that load the voltage drop is 32.19 V per 100 m (8.05 % of 400 V) and the loss 3.64 kW per 100 m.

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Bending radius 70 mm fixed, 88 mm moving; gland M32, lug bolt M5. Short-circuit rating 0.858 kA for 1 s; permitted pull 270 N, free-hanging length 74 m.

3G10. This size has with a conductor of Ø 4.1 mm under 1.20 mm of insulation (core Ø 6.5 mm) and 0.8 mm inner and 2.5 mm outer sheath; outer diameter 19.5–22.7 mm, weight about 660 kg/km of which copper 288 kg/km (44 %). Rated current 73 A at 30 °C; at that load the voltage drop is 25.76 V per 100 m (6.44 % of 400 V) and the loss 3.98 kW per 100 m. Bending radius 91 mm fixed, 114 mm moving; gland M32, lug bolt M6. Short-circuit rating 1.43 kA for 1 s; permitted pull 450 N, free-hanging length 69 m.

3G16. This size has with a conductor of Ø 5.2 mm under 1.20 mm of insulation (core Ø 7.6 mm) and 0.8 mm inner and 2.9 mm outer sheath; outer diameter 22.5–26.0 mm, weight about 980 kg/km of which copper 460 kg/km (47 %). Rated current 98 A at 30 °C; at that load the voltage drop is 22.29 V per 100 m (5.57 % of 400 V) and the loss 4.56 kW per 100 m. Bending radius 104 mm fixed, 130 mm moving; gland M40, lug bolt M6. Short-circuit rating 2.29 kA for 1 s; permitted pull 720 N, free-hanging length 74 m.

3G25. This size has with a conductor of Ø 6.5 mm under 1.40 mm of insulation (core Ø 9.3 mm) and 0.9 mm inner and 3.5 mm outer sheath; outer diameter 27.5–31.0 mm, weight about 1,510 kg/km of which copper 720 kg/km (48 %). Rated current 130 A at 30 °C; at that load the voltage drop is 19.34 V per 100 m (4.84 % of 400 V) and the loss 5.14 kW per 100 m. Bending radius 124 mm fixed, 155 mm moving; gland M40, lug bolt M8. Short-circuit rating 3.58 kA for 1 s; permitted pull 1,120 N, free-hanging length 75 m.

3G35. This size has with a conductor of Ø 7.6 mm under 1.40 mm of insulation (core Ø 10.4 mm) and 0.9 mm inner and 2.8 mm outer sheath; outer diameter 28.5–32.5 mm, weight about 1,770 kg/km of which copper 1,010 kg/km (57 %). Rated current 160 A at 30 °C; at that load the voltage drop is 17.30 V per 100 m (4.33 % of 400 V) and the loss 5.53 kW per 100 m. Bending radius 130 mm fixed, 162 mm moving; gland M50, lug bolt M8. Short-circuit rating 5.00 kA for 1 s; permitted pull 1,580 N, free-hanging length 90 m.

3G50. This size has with a conductor of Ø 9.1 mm under 1.60 mm of insulation (core Ø 12.3 mm) and 0.9 mm inner and 3.1 mm outer sheath; outer diameter 33.0–37.5 mm, weight about 2,450 kg/km of which copper 1,440 kg/km (59 %). Rated current 200 A at 30 °C; at that load the voltage drop is 15.55 V per 100 m (3.89 % of 400 V) and the loss 6.01 kW per 100 m. Bending radius 150 mm fixed, 188 mm moving; gland M50, lug bolt M10. Short-circuit rating 7.15 kA for 1 s; permitted pull 2,250 N, free-hanging length 93 m.

Averaged over all sizes copper makes up 51 % of the cable weight; the share rises from 23 % at 3G1 to 59 % at 3G50, 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 450/750 V.

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, %
3G1	1.35	2.75	0.70	6.5	–	1.25	–	28
3G1.5	1.65	3.25	0.80	7.6	–	1.30	–	25
3G2.5	2.13	3.93	0.90	9.1	–	1.44	–	24
3G4	2.70	4.70	1.00	10.7	–	1.83	–	25
3G6	3.30	5.30	1.00	12.0	–	2.05	–	25
3G10	4.08	6.48	1.20	14.6	0.79	2.48	–	31
3G16	5.16	7.56	1.20	16.9	0.82	2.90	–	31
3G25	6.45	9.25	1.40	20.5	0.86	3.52	–	30
3G35	7.63	10.43	1.40	23.1	0.90	2.80	–	24
3G50	9.12	12.32	1.60	27.2	0.95	3.12	–	23

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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
3G1	9.9	M16	M5	10	15
3G1.5	11.1	M20	M5	10	15
3G2.5	13.1	M25	M5	10	25
3G4	15.7	M25	M5	10	30
3G6	17.5	M32	M5	11	35
3G10	22.7	M32	M6	11	45
3G16	26.0	M40	M6	12	50
3G25	31.0	M40	M8	14	60
3G35	32.5	M50	M8	16	65
3G50	37.5	M50	M10	19	75

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

10 Comparison with Related Variants at Size 3G6

Variant	Differs in	Outer Ø / H mm	Weight kg/km	Pull N	Current A
This datasheet H07ZZ-F 3G 450/750 V	–	17.5	367	270	53
H07ZZ-F 3× 450/750 V 3×6	core configuration	17.5 (+0%)	367 (+0%)	270 (+0%)	53 (+0%)
H07ZZ-F 4× 450/750 V 4×6	core configuration	19.6 (+12%)	480 (+31%)	360 (+33%)	45 (-15%)
H07ZZ-F 3G 450/750 V 3G6	tinned vs bare copper	17.5 (+0%)	367 (+0%)	270 (+0%)	54 (+2%)
H07ZZ-F 3G 450/750 V 3G6	low-temperature sheath	17.5 (+0%)	367 (+0%)	270 (+0%)	53 (+0%)
H07ZZ-F 2× 450/750 V 2×6	core configuration	16.3 (-7%)	262 (-29%)	180 (-33%)	53 (+0%)
H07ZZ-F 4G 450/750 V 4G6	core configuration	19.6 (+12%)	480 (+31%)	360 (+33%)	53 (+0%)
H07ZZ-F 450/750 V 1×6	core configuration	9.8 (-44%)	122 (-67%)	90 (-67%)	53 (+0%)
H07ZZ-F 5× 450/750 V 5×6	core configuration	21.4 (+22%)	570 (+55%)	450 (+67%)	40 (-25%)

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 EN 50525-3-21 (VDE 0285-525-3-21)	Halogen-free thermoset flexible cables
IEC 60754-1 / -2	Halogen content and acidity
DIN VDE 0293-308	Core identification
DIN VDE 0295 / IEC 60228	Conductors, class 5
DIN EN 60332-1-2 / IEC 60332-1-2	Flame propagation

Routine and type tests

- AC voltage test on every drum length (routine test): 2.5 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) on type-test samples
- Verification of the halogen-free compounds (IEC 60754-1/-2)

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.

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The design follows DIN EN 50525-3-21. 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.

12 Installation, Marking and Delivery

Installation guidance

- Observe the bending radii in section 04.
- Do not exceed the tensile load of 15 N/mm² of the copper cross-section.
- Select halogen-free glands and fittings to maintain the halogen-free concept of the installation.
- Do not use below the rated minimum temperature when moving the cable.
- Unwind from the drum completely before applying full load.
- Protect the sheath from permanent abrasion.

Sheath marking

FEICHUN H07ZZ-F [cross-section] 450/750 V [year] [serial no.] [metre mark]

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: H07ZZ-F 3G6 450/750 V – 500 m on one drum. When requesting a quotation, state the cable type, configuration, cross-section, voltage, conductor (tinned), 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.

- H07ZZ-F 3× 450/750 V – core configuration, halogen-free FRNC, tinned
- H07ZZ-F 4× 450/750 V – core configuration, halogen-free FRNC, tinned
- H07ZZ-F 3G 450/750 V – tinned vs bare copper, halogen-free FRNC
- H07ZZ-F 3G 450/750 V – low-temperature sheath, halogen-free FRNC, low-temp, tinned
- H07ZZ-F 2× 450/750 V – core configuration, halogen-free FRNC, tinned
- H07ZZ-F 4G 450/750 V – core configuration, halogen-free FRNC, tinned
- H07ZZ-F 450/750 V – core configuration, halogen-free FRNC, tinned
- H07ZZ-F 5× 450/750 V – core configuration, halogen-free FRNC, tinned

Overview of all H07ZZ-F datasheets: H07 Series Flexible Cables 450/750 V

Frequently asked questions

What does ZZ mean in H07ZZ-F?
Halogen-free thermoset insulation (Z) and halogen-free thermoset sheath (Z); F means flexible conductors.

Is H07ZZ-F suitable for outdoor use?
Yes, within the temperature range; for permanent outdoor exposure check the sheath for UV and weather suitability.

What sizes are available for H07ZZ-F 3G?
10 sizes from 1 to 50 mm². The outer dimension of the largest size, 3G50, is 37.5 mm and the weight is about 2,450 kg/km.

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What current can 3G10 carry?
73 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 H07ZZ-F 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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Document control

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