HARMONISED FLEXIBLE CABLE 450/750 V · DIN VDE 0282 / EN 50525 | 450/750 V | 10 sizes | PUR, low-temp | BARE COPPER | LOW-TEMPERATURE GRADE

H07BQ-F 3G 450/750 V

PUR-Sheathed Flexible Cable 450/750 V 450/750 V – 3 cores of equal cross-section in concentric layers with a short lay length. Low-temperature polyurethane 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

H07BQ-F is the harmonised PUR-sheathed flexible cable for 450/750 V. EPR-insulated fine-wire cores are enclosed in an orange polyurethane sheath that is far more resistant to cuts, abrasion and oil than a rubber sheath. The cable is halogen-free and is used for tools, drives and machines in workshops, on building sites and in industry.

Design

The conductors are class 5 fine-wire copper, bare or tinned. The insulation is EPR (type 3GI3) rated for 90 °C at the conductor. The outer sheath is polyurethane of type TMPU (EN 50363-10-2), extruded tightly over the stranded cores. The bright orange sheath makes the cable easy to see on a site.

Typical applications

- Hand-held tools, drills and saws on building sites
- Machine connections in workshops, with oil and coolant exposure
- Cleaning, spray and wash-down equipment
- Garden, agricultural and forestry machinery
- Mobile compressors and generators
- Extension cables and cable reels for site distribution
- Production lines with abrasive floors
- Cold-climate duty: sites, cold stores and open-cast operations where the cable is moved at temperatures down to 40 °C

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

Key features

- Orange PUR sheath: high resistance to cuts, abrasion, tear and oil
- Halogen-free; hydrolysis- and microbe-resistant
- EPR insulation rated 90 °C at the conductor
- Rated voltage 450/750 V, test voltage 2.5 kV
- Flexible use from −30 °C to +80 °C, fixed use from −40 °C to +90 °C
- Bending radius 5 × D flexing, 3 × D fixed
- 10 sizes from 1 to 50 mm²; weight from 119 to 2,380 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 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.

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Standard background

H05BQ-F and H07BQ-F are harmonised types covered by DIN VDE 0282-10 (HD 22.10) and now by DIN EN 50525-2-21. The cable replaced the former VDE type NGMH11YÖ. H07 identifies the 450/750 V rating, B the EPR insulation, Q the polyurethane sheath and F the flexible conductor.

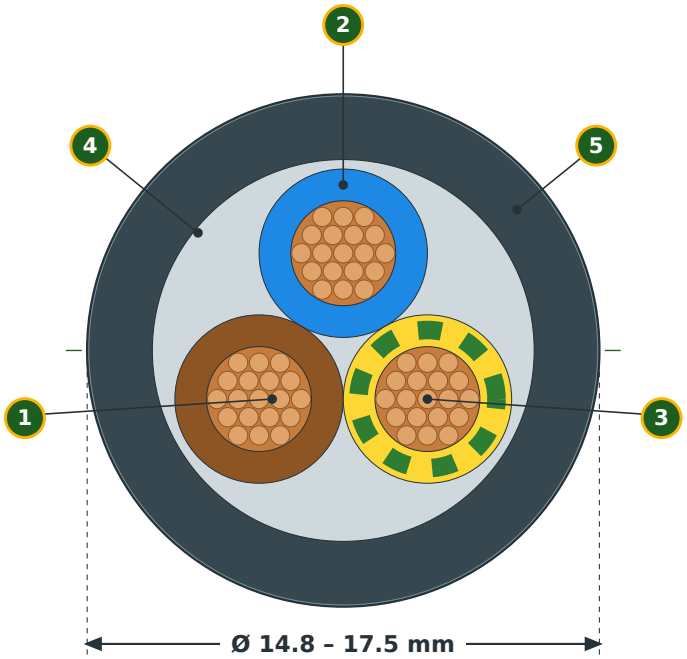
The low-temperature grade of the sheath compound remains flexible down to 40 °C in motion and 50 °C in fixed installation, so the cable can be reeled and trailed on cold sites, in cold stores and in northern open-cast operations. The mechanical and electrical ratings are those of the standard grade;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

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

H07BQ-F
Sample size 3G6 · 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	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	Polyurethane (PUR), low-temperature grade

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	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	Green-yellow, blue, brown to DIN VDE 0293-308
Stranding	Cores in concentric layers with a short lay length
Outer sheath	Polyurethane (PUR), low-temperature grade; thickness about 2.1 mm at this size

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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, 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 +90 °C
Ambient temperature, in motion	−40 °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-H07B-0848-01	1.4	8.2	9.9	30	40	119	29	45	19.5	17	0.143
3G1.5	FC-H07B-0848-02	1.7	9.2	11.1	33	44	157	43	68	13.3	23	0.214
3G2.5	FC-H07B-0848-03	2.2	10.8	13.1	52	66	215	72	112	7.98	31	0.357
3G4	FC-H07B-0848-04	2.7	13.1	15.7	63	78	252	115	180	4.95	42	0.572
3G6	FC-H07B-0848-05	3.3	14.8	17.5	70	88	353	173	270	3.30	54	0.858
3G10	FC-H07B-0848-06	4.1	19.5	22.7	91	114	630	288	450	1.91	74	1.43
3G16	FC-H07B-0848-07	5.2	22.5	26.0	104	130	940	460	720	1.21	99	2.29
3G25	FC-H07B-0848-08	6.5	27.5	31.0	124	155	1,450	720	1,120	0.780	131	3.58
3G35	FC-H07B-0848-09	7.7	28.5	32.5	130	162	1,730	1,010	1,580	0.554	162	5.00
3G50	FC-H07B-0848-10	9.2	33.0	37.5	150	188	2,380	1,440	2,250	0.386	202	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	24.9	58.71	14.68	2.16	0.452	0.202	0.143	0.083
3G1.5	23	17.0	54.24	13.56	2.69	0.678	0.303	0.214	0.124
3G2.5	31	10.2	43.97	10.99	2.93	1.13	0.506	0.357	0.206
3G4	42	6.31	37.08	9.27	3.34	1.81	0.809	0.572	0.330
3G6	54	4.21	31.93	7.98	3.68	2.71	1.21	0.858	0.495
3G10	74	2.44	25.59	6.40	4.00	4.52	2.02	1.43	0.826
3G16	99	1.54	21.99	5.50	4.54	7.24	3.24	2.29	1.32
3G25	131	0.995	19.14	4.79	5.12	11.31	5.06	3.58	2.06
3G35	162	0.706	17.20	4.30	5.56	15.83	7.08	5.00	2.89
3G50	202	0.492	15.46	3.86	6.02	22.61	10.11	7.15	4.13

06 Selection Guide and Sizing Aid

H07BQ-F 3G covers 10 sizes. The smallest, 3G1, has an outer diameter of up to 9.9 mm and weighs about 119 kg/km; the largest, 3G50, has an outer diameter of up to 37.5 mm and weighs about 2,380 kg/km, 20.0 times as much. Across the range the rated current rises from 17 A to 202 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 42 A.

Example 2. A circuit draws 87 A continuously at 35 °C ambient temperature, on its own. Temperature factor 0.96: required table current = 87 / (0.96) = 91 A. The smallest suitable size is 3G16 with 99 A.

07 Engineering Profile by Size

Every size of H07BQ-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 119 kg/km of which copper 29 kg/km (24 %). Rated current 17 A at 30 °C; at that load the voltage drop is 58.71 V per 100 m (14.68 % of 400 V) and the loss 2.16 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 38 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 157 kg/km of which copper 43 kg/km (27 %). Rated current 23 A at 30 °C; at that load the voltage drop is 54.24 V per 100 m (13.56 % of 400 V) and the loss 2.69 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 44 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 215 kg/km of which copper 72 kg/km (33 %). Rated current 31 A at 30 °C; at that load the voltage drop is 43.97 V per 100 m (10.99 % of 400 V) and the loss 2.93 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 53 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 252 kg/km of which copper 115 kg/km (46 %). Rated current 42 A at 30 °C; at that load the voltage drop is 37.08 V per 100 m (9.27 % of 400 V) and the loss 3.34 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 72 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 353 kg/km of which copper 173 kg/km (49 %). Rated current 54 A at 30 °C; at that load the voltage drop is 31.93 V per 100 m (7.98 % of 400 V) and the loss 3.68 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 77 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 630 kg/km of which copper 288 kg/km (46 %). Rated current 74 A at 30 °C; at that load the voltage drop is 25.59 V per 100 m (6.40 % of 400 V) and the loss 4.00 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 72 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 940 kg/km of which copper 460 kg/km (49 %). Rated current 99 A at 30 °C; at that load the voltage drop is 21.99 V per 100 m (5.50 % of 400 V) and the loss 4.54 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 78 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 1,450 kg/km of which copper 720 kg/km (50 %). Rated current 131 A at 30 °C; at that load the voltage drop is 19.14 V per 100 m (4.79 % of 400 V) and the loss 5.12 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 78 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 1,730 kg/km of which copper 1,010 kg/km (58 %). Rated current 162 A at 30 °C; at that load the voltage drop is 17.20 V per 100 m (4.30 % of 400 V) and the loss 5.56 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 93 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 2,380 kg/km of which copper 1,440 kg/km (61 %). Rated current 202 A at 30 °C; at that load the voltage drop is 15.46 V per 100 m (3.86 % of 400 V) and the loss 6.02 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 96 m.

Averaged over all sizes copper makes up 53 % of the cable weight; the share rises from 24 % at 3G1 to 61 % 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 H07BQ-F 3G 450/750 V	–	17.5	353	270	54
H07BQ-F 3× 450/750 V 3×6	core configuration	17.5 (+0%)	353 (+0%)	270 (+0%)	54 (+0%)
H07BQ-F 4× 450/750 V 4×6	core configuration	19.6 (+12%)	460 (+30%)	360 (+33%)	46 (-15%)
H07BQ-F 3G 450/750 V 3G6	tinned vs bare copper	17.5 (+0%)	353 (+0%)	270 (+0%)	53 (-2%)
H07BQ-F 3G 450/750 V 3G6	low-temperature sheath	17.5 (+0%)	353 (+0%)	270 (+0%)	54 (+0%)
H07BQ-F 2× 450/750 V 2×6	core configuration	16.3 (-7%)	251 (-29%)	180 (-33%)	54 (+0%)
H07BQ-F 4G 450/750 V 4G6	core configuration	19.6 (+12%)	460 (+30%)	360 (+33%)	54 (+0%)
H07BQ-F 450/750 V 1×6	core configuration	9.8 (-44%)	116 (-67%)	90 (-67%)	54 (+0%)
H07BQ-F 5× 450/750 V 5×6	core configuration	21.4 (+22%)	550 (+56%)	450 (+67%)	40 (-26%)

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 0282-10 (HD 22.10) / DIN EN 50525-2-21	Flexible EPR/PUR cables
DIN EN 50363-10-2	Sheathing compound TMPU
DIN VDE 0293-308	Core identification
DIN VDE 0295 / IEC 60228	Conductors, class 5
DIN EN 60754-1 / -2	Halogen content of the compounds
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 VDE 0282-10. 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

- Keep to the bending radii of section 04: flexing 5 × D, fixed 3 × D.
- Do not exceed the tensile load of 15 N/mm² of the copper cross-section.
- Avoid prolonged contact with hot surfaces above the rated conductor temperature.
- Cut and strip the PUR sheath with a sharp, round-blade tool.
- Use cable glands with a clamping range that matches the outer diameter.
- Store the cable dry and away from direct sunlight for long periods.

Sheath marking

FEICHUN H07BQ-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: H07BQ-F 3G6 450/750 V – 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.

- H07BQ-F 3× 450/750 V – core configuration, PUR, low-temp
- H07BQ-F 4× 450/750 V – core configuration, PUR, low-temp
- H07BQ-F 3G 450/750 V – tinned vs bare copper, PUR, low-temp, tinned
- H07BQ-F 3G 450/750 V – low-temperature sheath, PUR
- H07BQ-F 2× 450/750 V – core configuration, PUR, low-temp
- H07BQ-F 4G 450/750 V – core configuration, PUR, low-temp
- H07BQ-F 450/750 V – core configuration, PUR, low-temp
- H07BQ-F 5× 450/750 V – core configuration, PUR, low-temp

Overview of all H07BQ-F datasheets: H07 Series Flexible Cables 450/750 V

Frequently asked questions

What is the difference between H07BQ-F and H07RN-F?
H07BQ-F has a PUR sheath (cut- and abrasion-resistant, halogen-free); H07RN-F has a polychloroprene sheath.

Is H07BQ-F halogen-free?
Yes. Insulation and sheath are halogen-free compounds.

What sizes are available for H07BQ-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 2,380 kg/km.

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What current can 3G10 carry?
74 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 H07BQ-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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