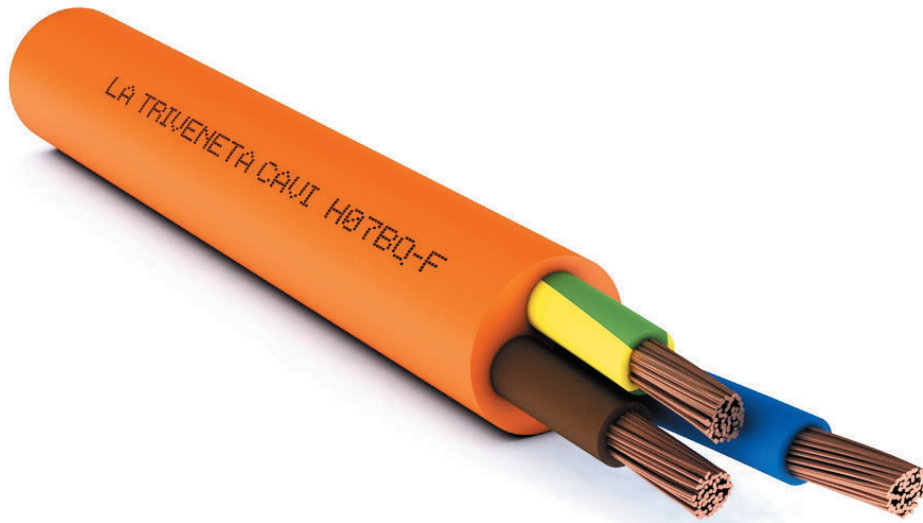


H07BQ-F

Construction:	CEI EN 50525-2-21
Low Voltage Directive:	2006/95/CE
RoHS Directive:	2011/65/CE



Description

- Conductor: plain copper wire, flexible, class 5
- Insulation: EPR rubber compound
- Filler: thermoplastic, penetrating between the cores (only in multi-core cables)
- Sheath: TMPU polyurethane
- Colour: orange

Functional characteristics

- Rated voltage U_0/U : 450/750 V (Max 1000 V)
- Max. operating temperature: 90°C
- Min. operating temperature: -50°C (without mechanical shocks)
- Max. short circuit temperature: 250°C

Special features

Good resistance to mechanical stress and abrasion.
Good flexibility and behaviour at low temperatures.
Absence of halogens.

Marking



LTC IMQ ◀HAR▶ H07BQ-F (FORMATION) (ORDER NUMBER) (YEAR) MADE IN ITALY (PROGRESSION METRIC)

Installation conditions

- Minimum installation temperature: -40°C
- Recommended minimum bending radius: 6 times the cable diameter for mobile use, 4 times for static use
- Recommended maximum tensile stress: 15 N/mm² of the cross-section of the copper for mobile use, 50 N/mm² for static use.

Use and installation method

Suitable for use indoors, in wet or normal environments, and temporarily outdoors. For connections subject to moderate mechanical loads, such as power tools, portable motors or machines on building sites, or agricultural applications. Suitable for heating appliances where there is no risk of contact with hot parts or radiation. Suitable for use in cold storage applications. It is allowed the installation up to 1000 V for permanent installation, protected (in pipes or tools) and also to connect motors of lifting systems and similar. Not suitable for underground laying, even if protected.

Two-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Free laying at 30°	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	V/A·Km
2 x 1	1,3	0,6	0,9	9,0	19,5	56	10	45,2
2 x 16	1,5	0,8	1,0	9,8	13,3	70	16	30,6
2 x 2,5	2,0	0,9	1,1	11,6	7,98	100	25	18,4
2 x 4	2,5	1,0	1,2	13,7	4,95	145	34	11,4
2 x 6	3,0	1,0	1,3	15,1	3,30	195	43	7,63
2 x 10	4,0	1,2	2,0	19,9	1,91	340	60	4,44
2 x 16	5,0	1,2	2,1	22,8	1,21	475	79	2,84

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Three-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Free laying at 30°	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	V/A·Km
3G1	1,3	0,6	0,9	9,5	19,5	73	10	45,2
3G1,5	1,5	0,8	1,0	10,4	13,3	92	16	30,6
3G2,5	2,0	0,9	1,1	12,4	7,98	135	25	18,4
3G4	2,5	1,0	1,2	14,5	4,95	195	35	11,4
3G6	3,0	1,0	1,4	16,3	3,30	270	44	7,63
3G10	4,0	1,2	2,1	21,4	1,91	470	60	4,44
3G16	5,0	1,2	2,3	24,7	1,21	670	82	2,84

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Four-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Free laying at 30°	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	V/A·Km
4G1	1,3	0,6	0,9	10,7	19,5	95	10	39,0
4G1,5	1,5	0,8	1,1	11,6	13,3	120	16	26,5
4G2,5	2,0	0,9	1,2	13,8	7,98	175	20	16,0
4G4	2,5	1,0	1,3	16,2	4,95	255	30	9,93
4G6	3,0	1,0	1,5	18,1	3,30	350	37	6,63
4G10	4,0	1,2	2,2	23,6	1,91	605	52	3,87
4G16	5,0	1,2	2,3	27,0	1,21	855	69	2,47

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Five-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Free laying at 30°	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	V/A·Km
5G1	1,3	0,8	1,0	11,9	19,5	120	10	39
5G1,5	1,5	0,8	1,1	12,7	13,3	145	16	26,5
5G2,5	2,0	0,9	1,3	15,3	7,98	220	20	16,0
5G4	2,5	1,0	1,4	17,9	4,95	320	30	9,93
5G6	3,0	1,0	1,6	20,0	3,30	450	38	6,63
5G10	4,0	1,2	2,3	25,9	1,91	815	44	3,87
5G16	5,0	1,2	2,5	30,0	1,21	1095	64	2,47

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"

Multi-core

Formation	Approx. conductor Ø	Average insulation thickness	Average sheath thickness	Max. external Ø	Max. electrical resistance at 20°C	Approx. cable weight	Free laying at 30°	Voltage drop
n° x mm ²	mm	mm	mm	mm	Ω/km	kg/km	A	V/A·Km
7G1,5	1,5	0,8	2,6	15,65	13,3	411	16	30,7
12G1,5	1,5	0,8	2,9	18,9	13,3	583	16	30,7
12G2,5	2,0	0,9	3,1	21,8	7,98	809	25	18,4

N.B. For current rating refer to table "Current carryings. Correction factors. Voltage drops"