



H05BQ-F, H07BQ-F

Halogen-free flexible installation cables upto 450/750 V, sheathed with polyurethane

APPLICATION

These cables can be used in dry, damp and wet areas, also outdoor, for medium mechanical loads. Robust and flexible, resistant to oils and external conditions, can be used in marinas for ship connection, as supply cables for electrical machines in construction industry and shipyards, for hand drills, circular saws and similar, for mobile motors in agriculture, heating devices if there is no risk that the cable will come in contact with hot elements. Flexibility at low temperatures up to -40 °C makes it suitable for use in freezing zones.

CONSTRUCTION

Conductors: Cu conductors, class 5 according to EN 60228

Insulation: Cross-linked elastomere compound, type EI 6

Bedding: Extruded rubber or plastic compound, or sheath can fill the spaces between cores

Sheath: Thermoplastic polyurethane (PUR), type TMPU

CORE IDENTIFICATION

According to HD 308 S2

Insulation Color:

2-core: ● Brown ● Blue

3-core (a): ● Green/Yellow ● Brown ● Blue

3-core (b): ● Black ● Brown ● Grey

4-core (a): ● Green/Yellow ● Brown ● Black ● Grey

4-core (b): ● Blue ● Brown ● Black ● Grey

5-core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

Outer Sheath Colour:

● Orange

Other colours available on request

TECHNICAL CHARACTERISTICS

Nominal voltage (H05BQ-F): 300/500 V

Nominal voltage (H07BQ-F): 450/750 V

Test voltage (H05BQ-F): 2000V

Test voltage (H07BQ-F): 2500V

Temperature range:

During installation, with bending: -30°C up to 80°C

Fixed installed: -40°C up to 90°C

Max. short-circuit temperature: 200°C

Min. bending radius: 6D

STANDARD

EN 50525-2-21

CERTIFICATION



H05BQ - F

NOMINAL CROSS-SECTION	INSULATION THICKNESS	SHEATH THICKNESS	OUTER DIAMETER	CONDUCTOR RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	METAL WEIGHT	CABLE WEIGHT
mm ²	Ω/km	Ω/km	mm	mm	A	A	A
2x0,75	0,6	0,8	5,7- 7,4	26,0	12	14,4	43
2x1,0	0,6	0,9	6,1- 8,0	19,5	15	19,2	53
3x0,75	0,6	0,9	6,2- 8,1	26,0	12	21,6	56
3x1,0	0,6	0,9	6,5- 8,5	19,5	15,5	28,8	66
4x0,75	0,6	0,9	6,8- 8,8	26,0	12	28,8	68
4x1,0	0,6	0,9	7,1- 9,3	19,5	13	38,4	81
5x0,75	0,6	1,0	7,6- 9,9	26,0	12	36	83
5x1,0	0,6	1,0	8,0- 10,3	19,5	13,5	48	99



H07BQ - F

NOMINAL CROSS-SECTION	INSULATION THICKNESS	SHEATH THICKNESS	OUTER DIAMETER	CONDUCTOR RESISTANCE AT 20°C	CURRENT CAPACITY IN AIR	METAL WEIGHT	CABLE WEIGHT
mm ²	Ω/km	Ω/km	mm	mm	A	A	A
2x1,0	0,8	0,9	6,9- 9,0	19,50	15	19,2	62
2x1,5	0,8	1,0	7,6- 9,8	13,30	18,5	28,8	79
2x2,5	0,9	1,1	9,0- 11,6	7,98	25	48,0	117
2x4,0	1,0	1,2	10,6- 13,7	4,95	34	76,8	188
2x6,0	1,0	1,3	11,8- 15,1	3,30	43	115,2	234
2x10	1,2	2,0	15,6- 19,9	1,91	60	192,0	387
2x16	1,2	2,1	17,9- 22,8	1,21	79	307,2	552
3x1,0	0,8	0,9	7,3- 9,5	19,50	15,5	28,8	77
3x1,5	0,8	1,0	8,0- 10,4	13,30	19,5	43,2	100
3x2,5	0,9	1,1	9,6- 12,4	7,98	26	72,0	150
3x4,0	1,0	1,2	11,3- 14,5	4,95	35	115,2	240
3x6,0	1,0	1,4	12,8- 16,3	3,30	44	172,8	311
3x10	1,2	2,1	16,8- 21,4	1,91	62	288,0	512
3x16	1,2	2,3	19,5- 24,7	1,21	82	460,8	748
4x1,0	0,8	1,0	8,2- 10,7	19,50	13	38,4	96
4x1,5	0,8	1,1	9,0- 11,6	13,30	16	57,6	126
4x2,5	0,9	1,2	10,7- 13,8	7,98	22	96,0	188
4x4,0	1,0	1,3	12,7- 16,2	4,95	30	153,6	300
4x6,0	1,0	1,5	14,2- 18,1	3,30	37	230,4	391
4x10	1,2	2,2	18,6- 23,6	1,91	52	384,0	642
4x16	1,2	2,3	21,3- 27,0	1,21	69	614,4	935
5x1,0	0,8	1,1	9,2- 11,9	19,50	13,5	48,0	116
5x1,5	0,8	1,1	9,8- 12,7	13,30	16,5	72,0	148
5x2,5	0,9	1,3	11,9- 15,3	7,98	23	120,0	228
5x4,0	1,0	1,4	14,1- 17,9	4,95	30	192,0	362
5x6,0	1,0	1,6	15,7- 20,0	3,30	38	288,0	474
5x10	1,2	2,3	20,4- 25,9	1,91	54	480,0	775
5x16	1,2	2,5	23,7- 30,0	1,21	71	768,0	1141