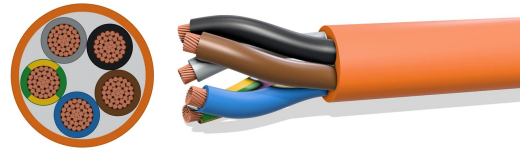


Application

H07BQ-F is a heavy-duty flexible cable to EN 50525-2-21 (HD 22.10) for 450/750 V connection of power tools, site equipment, hoists, pumps and machinery under tough mechanical and chemical conditions. The fine-stranded class 5 copper conductors are insulated with cross-linked ethylene-propylene rubber (EPR/EI6), laid up, and protected by an abrasion-, oil- and weather-resistant polyurethane (PUR) outer sheath. The PUR sheath and rubber insulation make the cable tough, cold-flexible and resistant to oils, greases and mechanical wear, so H07BQ-F is used where ordinary PVC or rubber flexibles would not survive. The XLPE-class EPR insulation gives a +90 °C conductor rating.



CONSTRUCTION

Conductor	Fine-wire strand of plain annealed copper, class 5 acc. to IEC 60228.
Insulation	Cross-linked ethylene-propylene rubber (EPR), type EI6.
Core identification	Colour-coded per HD 308 S2 (with green/yellow), or numbered per order.
Sheath	Polyurethane (PUR / TMPU), abrasion-, oil- and weather-resistant; typically orange.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	450/750 V.
Test voltage	2.5 kV AC.
Standard	EN 50525-2-21 (HD 22.10); conductor acc. to IEC 60228, class 5.
Reaction to fire (CPR)	Outside the scope of EN 50575 (flexible connection cable).
Flame-retardant	Acc. to IEC/EN 60332-1-2.
Max. conductor temperature	+90 °C (short circuit +250 °C, max. 5 s).
Permitted temperature, flexing	-30 °C to +80 °C.
Permitted temperature, fixed	-40 °C to +90 °C.
Min. bending radius	4 × overall diameter (fixed), 6 × overall diameter (flexing).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 1.5	13.3	7.6	79
3 × 1.5	13.3	8	100
4 × 1.5	13.3	9	126
5 × 1.5	13.3	9.8	148
2 × 2.5	7.98	9	117
3 × 2.5	7.98	9.6	150
4 × 2.5	7.98	10.7	188
5 × 2.5	7.98	11.9	228
2 × 4	4.95	10.6	188
3 × 4	4.95	11.3	240
4 × 4	4.95	12.7	300
5 × 4	4.95	14.1	362
2 × 6	3.3	11.8	234
3 × 6	3.3	12.8	311
4 × 6	3.3	14.2	391
5 × 6	3.3	15.7	474
2 × 10	1.91	15.6	387
3 × 10	1.91	16.8	512
4 × 10	1.91	18.6	642
5 × 10	1.91	20.4	775
2 × 16	1.21	17.9	552
3 × 16	1.21	19.5	748
4 × 16	1.21	21.3	935
5 × 16	1.21	23.7	1141

Outer diameters are nominal (lower bound of the harmonised range) and weights are nominal values of the leading reference source; conductor resistances are the IEC 60228 class 5 maxima at 20 °C. The range starts at 1.5 mm²; 0.75 and 1 mm² are supplied as H05BQ-F (300/500 V). All values are indicative and non-binding.