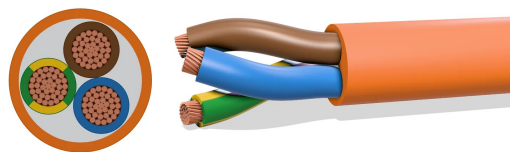


Application

H05BQ-F is a harmonised flexible cable to EN 50525-2-21 with EPR rubber core insulation and a thermoplastic polyurethane (PUR) outer sheath, rated 300/500 V and available in 2 to 5 cores of 0.75 and 1.0 mm². The polyurethane sheath gives high resistance to abrasion, cutting, tearing, oils, greases and many chemicals, well beyond that of ordinary rubber-sheathed cables of the same voltage class. It is intended as a supply lead for hand-held tools, portable equipment and machines in workshops, industry and on construction sites, indoors and outdoors, under medium mechanical stress, for fixed installation as well as occasional flexing. The sheath is halogen-free; larger cross-sections (1.5 mm² and up) are covered by H07BQ-F, 450/750 V.



CONSTRUCTION

Conductor	Fine-wire stranded plain (bare) annealed copper, class 5 to IEC/EN 60228.
Insulation	EPR rubber (compound EI 6 to EN 50363-1).
Sheath	Thermoplastic polyurethane, PUR (compound TMPU to EN 50363-10-2), round; orange.
Core colours	To HD 308 S2 / VDE 0293-308: 2 cores brown, blue; 3 cores (G) green/yellow, brown, blue; 3 cores (X) brown, black, grey; 4 cores (G) green/yellow, brown, black, grey; 4 cores (X) blue, brown, black, grey; 5 cores (G) green/yellow, blue, brown, black, grey; 5 cores (X) blue, brown, black, grey, black.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Test voltage	2 kV.
Standard	EN 50525-2-21; HAR-certified.
Flame-retardant	IEC/EN 60332-1-2.
Conductor standard	IEC/EN 60228 class 5.
Max. conductor temperature	+90 °C.
Permitted outer cable temperature, fixed	-40 °C to +90 °C.
Permitted outer cable temperature, moved	-40 °C to +80 °C.
Min. bending radius, fixed	4 × outer diameter.
Min. bending radius, moved	12.5 × outer diameter.
Reaction to fire (CPR)	Outside the scope of EN 50575 (flexible connection cable, not for permanent installation in construction works).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 0.75	26	6.55	52
3 × 0.75	26	7.15	63
4 × 0.75	26	7.8	80
5 × 0.75	26	8.75	96
2 × 1	19.5	7.05	59
3 × 1	19.5	7.5	71
4 × 1	19.5	8.2	89
5 × 1	19.5	9.15	112

Outer diameters are the midpoint of the EN 50525-2-21 dimensional band of the leading reference source and weights its nominal values; conductor resistance is the maximum per IEC/EN 60228 class 5; all values are indicative and non-binding.