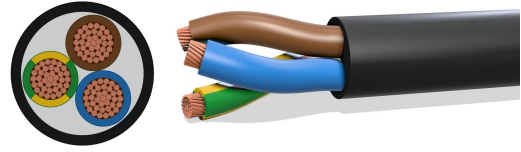


Application

H05Z1Z1-F is a harmonised flexible cable to EN 50525-3-11 with halogen-free thermoplastic insulation and sheath, rated 300/500 V. It is the low-smoke, halogen-free counterpart of H05VV-F and is intended for the connection of household and office appliances, pendant luminaires and portable equipment subject to medium mechanical stress in dry indoor locations, in particular in public buildings such as hospitals, schools, shopping centres and airports where fire safety, low smoke density and the absence of corrosive gases are required. In the event of fire the cable does not propagate flame and emits only low quantities of smoke and no halogen acids. The cable is not intended for permanent outdoor use, for industrial applications with heavy mechanical stress or for continuous reeling or forced-guided use.



CONSTRUCTION

Conductor	Fine-wire stranded plain (bare) annealed copper, class 5 to IEC/EN 60228.
Insulation	Halogen-free thermoplastic compound TI 6 to EN 50363-7.
Sheath	Halogen-free thermoplastic compound TM 7 to EN 50363-8, round; black (white on request).
Core colours	To HD 308 S2: 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 50525-3-11.
Flame-retardant	IEC/EN 60332-1-2.
Halogen-free	IEC/EN 60754-1/-2; low smoke density to IEC/EN 61034-2.
Conductor standard	IEC/EN 60228 class 5.
Max. conductor temperature	+60 °C.
Permitted outer cable temperature, fixed	-5 °C to +60 °C.
Permitted outer cable temperature, moved	-5 °C to +50 °C.
Min. bending radius, fixed	5 × outer diameter.
Min. bending radius, moved	6 × 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	6.3	57
3 × 0.75	26	6.7	68
4 × 0.75	26	7.3	83
5 × 0.75	26	8.1	103
2 × 1	19.5	6.6	65
3 × 1	19.5	7	78
4 × 1	19.5	7.9	100
5 × 1	19.5	8.3	130
2 × 1.5	13.3	7.4	84
3 × 1.5	13.3	8	107
4 × 1.5	13.3	9	134
5 × 1.5	13.3	10.4	170
2 × 2.5	7.98	9	130
3 × 2.5	7.98	9.9	163
4 × 2.5	7.98	10.8	201
5 × 2.5	7.98	12.1	255

Dimensions and weights are nominal values of the leading reference source; conductor resistance is the maximum per IEC/EN 60228 class 5; all values are indicative and non-binding.