

EVC H05BZ5-F, EVC H07BZ5-F, XLPO Insulated TPU Sheathed EV Charging Cable, 300/500V and 450/750V



Europe TUV EV Charging Cables

EVC H05BZ5-F and EVC H07BZ5-F are the two EN 50620 charging cables for AC electric vehicle supply equipment, and the number in the designation is the only thing that separates them: H05BZ5-F is the 300/500V type, limited by the standard to 1.5 mm² and 2.5 mm² three-core constructions and to mode 1 charging, while H07BZ5-F is the 450/750V type that carries three, four or five power cores from 1.5 mm² up to 35 mm² for mode 2 and mode 3 charging. Both use halogen-free cross-linked EVI-2 insulation over class 5 flexible copper, a halogen-free EVM-1 polyurethane sheath, and one or two 0.5 mm² or 1.0 mm² control and pilot cores for the charging handshake. Both are TUV certified to EN 50620 and IEC 62893, run at 90°C conductor temperature with a 250°C short-circuit rating, and stay flexible down to -40°C fixed and -35°C in handling, which is what a lead that is coiled, dropped and dragged across a forecourt has to survive.

Our EVC H05BZ5-F, EVC H07BZ5-F Power Cable products are fully molded with a low profile ergonomic design and RoHS, REACH and PAHS compliant.

Specifications

Label	Value
Plug Cables Standard:	EN 50620; IEC 62893; EN 60228; EN 60332-1-2; EN 60811-404
Number of Wires	3G1.5 to 3G2.5 (H05BZ5-F); 3G1.5 to 5G6 (H07BZ5-F), plus n x 0.5-1.0 control cores
Rated Voltage:	300/500V (H05BZ5-F), 450/750V (H07BZ5-F)
Rated Temperature:	-40°C to +90°C fixed, -35°C flexing, +250°C short circuit
Copper Conductor Material:	Oxygen free Copper (OFCU)
Outer Jacket Material:	PVC, Rubber, Halogen-Free, Textile braid
Blade Material:	Nickel coated Brass
Flamability Rating:	UL 94V-0
Color:	black is standard but any color available
Temperature Rating:	minus 40°C though plus 75°C
Approvals:	TUV, CE, HAR Certified List
Environmental Certifications:	RoHS, REACH, PAHS
Testing:	Hi-Pot (Dielectric Withstanding Voltage), Polarity (pinout) and Continuity

Packing:

Standard Export Carton

Our other certificated products



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