



Quality Through Experience

ELECTRIC VEHICLE CHARGING CABLES



TÜV RHEINLAND & VDE CERTIFIED, ELECTRIC VEHICLE CHARGING CABLES

VDE CERTIFIED
FIRST AND ONLY
IN TÜRKİYE





CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires EN 60228 (tinned conductor on request)
Insulation	Special compound type EVI-2 according to EN 50620
Outer Sheath	Special compound type EVM-1, as specified in EN 50620
Color	Black

MAIN CHARACTERISTICS

Construction	EN 50620
Guide to Use	EN 50565-1
General Requirements	EN 50525-1
Electrical Tests	EN 50395, EN 62230, EN 50289-1
Non-electrical Tests	EN 50525-1, EN 50396
Assessment of Halogens	EN 50525-1
Conductor Resistance	EN 60228
Flame Retardant	EN 60332-1-2
Oil Resistance	EN 60811-404
Weathering/UV Resistance	EN 50620
Water Resistance	EN 50396
Ozon Resistance	EN 50396
Resistance against chemicals	EN 50620
Charging Mode	EN 61851-1
Power cores colors	HD 308 S2
Pilot and control cores colors	EN 50334

OPERATING CHARACTERISTICS

Rated Voltage	H05BZ5-F 300/500 V H07BZ5-F 450/750 V	Min. Installation Temperature	-35°C
Operating Temperature	-40°C to +90°C	Max. Storage Temperature	40°C
Conductor Operating Temperature	Max. 90°C	Min. Bending Radius	EN 50565-1 Tab.3
Conductor Short-circuit Temperature		Free movement D≤12 mm	5 x D mm
Bare Copper	250°C (Max. 5 s)	Free movement D>12 mm	6 x D mm
Tinned Copper	200°C (Max. 5 s)	Current Carrying Capacities	EN 50620 Tab. E.1/E.2

APPLICATION

These cables suitable for trailing EV plug connections to vehicle.
The charging cables are applicable for charging modes 1-3 of EN 61851-1.



FLAME RETARDANT



OIL RESISTANT



UV RESISTANT



WEATHER RESISTANT



WATER RESISTANT



TEAR RESISTANT

Product Name	Power Cores (mm²)	Control Cores (mm²)	Insulation thickness power core (mm)	Sheath thickness (mm)	Mean overall diameter Minimum (mm)	Mean overall diameter Maximum (mm)	App. Weight (kg/km)	Min. Bending Radius Free Movement (mm)
H05BZ5-F	3 × 1,5	"1x0,50-1,0 2x0,50-1,0"	0,6	1,0	7,9	10,1	100	51
H05BZ5-F	3 × 2,5	"1x0,50-1,0 2x0,50-1,0"	0,6	1,0	9,1	11,5	140	58
H07BZ5-F	3 × 1,5	"1x0,50-1,0 2x0,50-1,0"	0,7	1,0	8,2	10,5	110	53
H07BZ5-F	3 × 2,5	"1x0,50-1,0 2x0,50-1,0"	0,7	1,0	9,3	11,9	150	60
H07BZ5-F	3 × 4	"1x0,50-1,0 2x0,50-1,0"	0,7	1,1	10,8	13,8	210	83
H07BZ5-F	3 × 6	"1x0,50-1,0 2x0,50-1,0"	0,7	1,2	12,3	15,7	280	94
H07BZ5-F	3 × 10	"1x0,50-1,0 2x0,50-1,0"	0,7	1,4	14,8	19,0	450	114
H07BZ5-F	3 × 16	"1x0,50-1,0 2x0,50-1,0"	0,7	1,5	17,6	22,6	650	136
H07BZ5-F	3 × 25	"1x0,50-1,0 2x0,50-1,0"	0,9	1,7	21,9	28,0	960	168
H07BZ5-F	3 × 35	"1x0,50-1,0 2x0,50-1,0"	0,9	1,9	25,7	32,9	1340	197
H07BZ5-F	4 × 2,5	"1x0,50-1,0 2x0,50-1,0"	0,7	1,0	10,2	13,1	180	79
H07BZ5-F	4 × 4	"1x0,50-1,0 2x0,50-1,0"	0,7	1,1	11,9	15,2	260	91
H07BZ5-F	4 × 6	"1x0,50-1,0 2x0,50-1,0"	0,7	1,2	13,5	17,3	350	104
H07BZ5-F	4 × 10	"1x0,50-1,0 2x0,50-1,0"	0,7	1,4	16,4	20,9	570	125
H07BZ5-F	4 × 16	"1x0,50-1,0 2x0,50-1,0"	0,7	1,6	19,7	25,2	830	151
H07BZ5-F	4 × 25	"1x0,50-1,0 2x0,50-1,0"	0,9	1,9	24,6	31,5	1240	189
H07BZ5-F	4 × 35	"1x0,50-1,0 2x0,50-1,0"	0,9	2,1	28,9	37,0	1720	222
H07BZ5-F	5 × 2,5	"1x0,50-1,0 2x0,50-1,0"	0,7	1,2	11,7	15,0	220	90
H07BZ5-F	5 × 4	"1x0,50-1,0 2x0,50-1,0"	0,7	1,3	13,5	17,3	320	104
H07BZ5-F	5 × 6	"1x0,50-1,0 2x0,50-1,0"	0,7	1,4	15,4	19,7	430	118
H07BZ5-F	5 × 10	"1x0,50-1,0 2x0,50-1,0"	0,7	1,5	18,3	23,4	690	140
H07BZ5-F	5 × 16	"1x0,50-1,0 2x0,50-1,0"	0,7	1,7	22,0	28,1	1010	169
H07BZ5-F	5 × 25	"1x0,50-1,0 2x0,50-1,0"	0,9	2,0	27,5	35,2	1510	211
H07BZ5-F	5 × 35	"1x0,50-1,0 2x0,50-1,0"	0,9	2,3	32,4	41,5	2120	249



CABLE STRUCTURE

Conductor	Electrolytic annealed, class 5 stranded plain copper wires IEC 60228 (tinned conductor on request)
Insulation	Special compound type EVI-2 according to IEC 62893-1
Outer Sheath	Special compound type EVM-1, as specified in IEC 62893-1
Color	Black (other colors available on request)

MAIN CHARACTERISTICS

Construction	IEC 62893-4-1
Guide to Use	IEC 62440
General Requirements	IEC 62821-1, IEC 62893-1
Electrical Tests	IEC 62893-2, IEC 60245-2, IEC 60227-2
Non-electrical Tests	IEC 62893-1, IEC 60245-2
Assessment of Halogens	IEC 62821-1
Conductor Resistance	IEC 60228
Flame Retardant	IEC 60332-1-2
Oil Resistance	IEC 60811-404
Weathering/UV Resistance	IEC 62893-2
Water Resistance	IEC 62893-2
Tear Resistance	IEC 62893-2
Ozon Resistance	IEC 62893-1
Resistance against chemicals	IEC 62893-2
Charging Mode	IEC 61851-1
Core Identification	IEC 62893-4-1

OPERATING CHARACTERISTICS

Rated Voltage DC	1,5 kV	Min. Installation Temperature	-25°C
Rated Voltage AC	0,6/1 kV	Max. Storage Temperature	45°C
Operating Temperature	-40°C to +90°C	Min. Bending Radius	EN 50565-1 Tab.3
Conductor Operating Temperature	Max. 90°C	Free movement D≤12 mm	5 x D mm
Conductor Short-circuit Temperature		Free movement D>12 mm	6 x D mm
		Current Carrying Capacities	IEC 60364-5-52
Bare Copper	250°C (Max. 5 s)		
Tinned Copper	200°C (Max. 5 s)		

Number of cores x cross section (mm²)	Insulation Thickness nom. (mm)	Outer Sheath Thickness nom. (mm)	Outer Sheath Diameter min. (mm)	Outer Sheath Diameter max. (mm)	App. Weight (kg/km)	Min. Bending Radius Free Movement (mm)
2x50+1G25+4x(2x0,75)	1,1 - 1 - 0,4	2,2	27,9	34,8	1595	209
2x70+1G35+4x(2x0,75)	1,2 - 1 - 0,4	2,5	32,6	40,7	2220	244
4x50+1G25+4x(2x0,75)	1,1 - 1 - 0,4	2,7	36	41	2845	246

*Other conductors and cross-section available on request.

APPLICATION

These cables suitable for trailing EV plug connections to vehicle. The charging cables are applicable for charging mode 4 of EN 61851-1.



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OIL RESISTANT



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TEAR RESISTANT



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