UNT EVC CABLE H05BZ5-F / H07BZ5-F (AC)

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
Operating Temperature	-40˚C to +90˚C
Conductor Operating Temperature	Max. 90˚C

Conductor Short-circuit Temperature

Bare Copper	250˚C (Max. 5 s)
Tinned Copper	200˚C (Max. 5 s)

Min. Installation Temperature	-35˚C
Max. Storage Temperature	40˚C
Min. Bending Radius	EN 50565-1 Tab.3
Free movement D≤12 mm	5 x D mm
Free movement D>12 mm	6 x D mm
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

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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