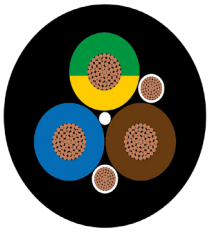
CLEVELAND CABLE COMPANY

Connect-EV
Cleveland Cable Company Specialist EV Cables

H07BZ5-F ELECTRIC VEHICLE CHARGING CABLE



APPLICATION

This flexible cable is for use in the provision of vehicle power from consumer side units (Charging mode 1) European standard electric vehicle AC commercial and public installations (Charging mode 2 and 3). The cable is suitable for direct installation to the charging point or as a trailing EV plug that is carried in the vehicle.

CABLE STANDARDS

EN 50620,
IEC 62893,
EN/IEC 60228,
IEC 60332-1-2,
IEC 61851-1

CONSTRUCTION

Conductor: Class 5 Flexible stranded copper

Insulation: Rubber Compound type EV1-2

Control Cores: Class 5 Flexible Copper conductor

Pilot Core Insulation: Rubber

Sheath: Thermoplastic Polyurethane (TPEM)

CHARACTERISTICS

Voltage Rating: 450/750 Volts

Temperature Limits: -35°C to +90°C
Maximum Short Circuit Temp: +250°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

3 Core: Brown Blue G/Y
4 Core: Brown Blue Grey G/Y
5 Core: Brown Blue Grey Black G/Y

CC AND CP CORES

White

Should not be installed at temperatures below 0°C

For more information contact:
01642 241 133

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H07BZ5-F EV CHARGING CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM^2)	NO. OF POWER CORES	CC AND CP CONTROL CORES 1 OR 2 CORES	MAX CURRENT AT 30°C (AMPS)		INSULATION THICKNESS	SHEATH THICKNESS	OVERALL NOMINAL DIAMETER	NOMINAL WEIGHT	CHARGING MODE
				SINGLE PHASE	THREE PHASE	(MM)	(MM)	(MM)	KG/KM	
EVH07BZ5F3X1/5	1.5	3	nx0.5mm or nx1.0mm	16	12	0,7	1,0	8,7	110	1/2/3
EVH07BZ5F3X2/5	2.5	3	nx0.5mm or nx1.0mm	25	20	0,7	1,0	9,8	150	1/2/3
EVH07BZ5F3X4	4	3	nx0.5mm or nx1.0mm	35	30	0,7	1,1	11,0	210	1/2/3
EVH07BZ5F3X6	6	3	nx0.5mm or nx1.0mm	44	38	0,7	1,2	12,2	280	1/2/3
EVH07BZ5F3X10	10	3	nx0.5mm or nx1.0mm	62	54	0,7	1,4	15,9	450	1/2/3
EVH07BZ5F3X16	16	3	nx0.5mm or nx1.0mm	82	71	0,7	1,5	18,1	650	1/2/3
EVH07BZ5F3X25	25	3	nx0.5mm or nx1.0mm	109	94	0,9	1,7	22,1	960	1/2/3
EVH07BZ5F3X35	35	3	nx0.5mm or nx1.0mm	135	117	0,9	1,9	25,3	1340	1/2/3
EVH07BZ5F4X2/5	2.5	4	nx0.5mm or nx1.0mm	25	20	0,7	1,0	10,3	180	1/2/3
EVH07BZ5F4X4	4	4	nx0.5mm or nx1.0mm	35	30	0,7	1,1	12,1	260	1/2/3
EVH07BZ5F4X6	6	4	nx0.5mm or nx1.0mm	44	38	0,7	1,2	13,5	350	1/2/3
EVH07BZ5F4X10	10	4	nx0.5mm or nx1.0mm	62	54	0,7	1,4	17,5	570	1/2/3
EVH07BZ5F4X16	16	4	nx0.5mm or nx1.0mm	82	71	0,7	1,6	20,1	830	1/2/3
EVH07BZ5F4X25	25	4	nx0.5mm or nx1.0mm	109	94	0,9	1,9	24,8	1240	1/2/3
EVH07BZ5F4X35	35	4	nx0.5mm or nx1.0mm	135	117	0,9	2,1	28,1	1720	1/2/3
EVH07BZ5F5X2/5	2.5	5	nx0.5mm or nx1.0mm	25	20	0,7	1,2	12,4	220	1/2/3
EVH07BZ5F5X4	4	5	nx0.5mm or nx1.0mm	35	30	0,7	1,3	13,4	320	1/2/3
EVH07BZ5F5X6	6	5	nx0.5mm or nx1.0mm	44	38	0,7	1,4	15,8	430	1/2/3
EVH07BZ5F5X10	10	5	nx0.5mm or nx1.0mm	62	54	0,7	1,5	19,4	690	1/2/3
EVH07BZ5F5X16	16	5	nx0.5mm or nx1.0mm	82	71	0,7	1,7	22,3	1010	1/2/3
EVH07BZ5F5X25	25	5	nx0.5mm or nx1.0mm	109	94	0,9	2,0	27,5	1510	1/2/3
EVH07BZ5F5X35	35	5	nx0.5mm or nx1.0mm	135	117	0,9	2,3	31,6	2120	1/2/3

H07BZ5-F EV CHARGING CABLE - ELECTRICAL CHARACTERISTICS

CONDUCTOR CROSS – SECTIONAL AREA MM^2	CURRENT CARRYING CAPACITY 60°C CONDUCTOR OPERATING TEMPERATURE		CURRENT CARRYING CAPACITY 90°C CONDUCTOR OPERATING TEMPERATURE		VOLTAGE DROP
	FREE AIR	ENCLOSED	FREE AIR	ENCLOSED	
	2 CORE CABLE WITH OR WITHOUT PROTECTIVE CONDUCTOR	3, 4 OR 5 CORE CABLE	2 CORE CABLE WITH OR WITHOUT PROTECTIVE CONDUCTOR	3, 4 OR 5 CORE CABLE	1 X THREE CORE, FOUR CORE OR FIVE CORE CABLE, THREE PHASE AC
1.5	-	20	24	31	27
2.5	-	28	32	40	16
4	56	66	40	52	10
6	73	82	50	64	6.7
10	91	104	69	86	4
16	122	132	91	112	2.5
25	164	170	126	145	1.85
35	206	207	155	174	1.35

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