

ConnectEV H07BZ5-F Electric Vehicle Charging Cable - 1.5mm² to 35mm²



Description

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.

Key Features



Voltage Rating
450/750 Volts



Minimum Bending Radius
6 x overall diameter



Flame Retardancy
BS EN 60332-1-2



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

Core Colours

- 3 Core:** Brown Blue Green Yellow
- 4 Core:** Brown Blue Grey Green Yellow
- 5 Core:** Brown Black Grey Blue Green Yellow

Standards

- IEC 62893
- EN 50620
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- IEC 61851-1
- Conforms to H07BZ5-F

Construction

- **Conductor:** Class 5 Flexible stranded copper
- **Pilot Core:** Class 5 Flexible Copper
- **Control Cores:** Class 5 Flexible Copper
- **Insulation:** Rubber Compound type EV1-2
- **Pilot Core Insulation:** Rubber
- **Control Core Insulation:** Rubber
- **Tape:** Longitudinal Water Blocking Tape
- **Sheath:** Thermoplastic Polyurethane (TPEM)

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

ConnectEV H07BZ5-F Electric Vehicle Charging Cable - 1.5mm² to 35mm² - Dimensions

Reference	Conductor Size (mm ²)	No Of Cores	Overall Diameter(mm)	Weight(Kg/Km)
CONNECTEVH07BZ53X1/5	1.5	3	8.7	110
CONNECTEVH07BZ53X2/5	2.5	3	9.8	150
CONNECTEVH07BZ54X2/5	2.5	4	10.3	180
CONNECTEVH07BZ55X2/5	2.5	5	12.4	220
CONNECTEVH07BZ53X4	4	3	11	210
CONNECTEVH07BZ54X4	4	4	12.1	260
CONNECTEVH07BZ55X4	4	5	13.4	320
CONNECTEVH07BZ53X6	6	3	12.2	280
CONNECTEVH07BZ54X6	6	4	13.5	350
CONNECTEVH07BZ55X6	6	5	15.8	430
CONNECTEVH07BZ53X10	10	3	15.9	450
CONNECTEVH07BZ54X10	10	4	17.5	570
CONNECTEVH07BZ55X10	10	5	19.4	690
CONNECTEVH07BZ53X16	16	3	18.1	650
CONNECTEVH07BZ54X16	16	4	20.1	830
CONNECTEVH07BZ55X16	16	5	22.3	1010
CONNECTEVH07BZ53X25	25	3	22.1	960
CONNECTEVH07BZ54X25	25	4	24.8	1240
CONNECTEVH07BZ55X25	25	5	27.5	1510
CONNECTEVH07BZ53X35	35	3	25.3	1340
CONNECTEVH07BZ54X35	35	4	28.1	1720
CONNECTEVH07BZ55X35	35	5	31.6	2120

H07BZ5-F EV CHARGING CABLE - ELECTRIC CHARACTERISTICS

CONDUCTOR SIZE (MMF)	CURRENT CARRYING CAPACITY 60°C CONDUCTOR OPERATING TEMPERATURE		CURRENT CARRYING CAPACITY 90°C CONDUCTOR OPERATING TEMPERATURE		VOLTAGE DROP 1 X THREE CORE, FOUR CORE OR FIVE CORE CABLE, THREE PHASE AC (A)
	FREE AIR	ENCLOSED	FREE AIR	ENCLOSED	
	2 CORE CABLE WITH OR WITHOUT PROTECTIVE CONDUCTOR (A)	3, 4 OR 5 CORE CABLE (A)	2 CORE CABLE WITH OR WITHOUT PROTECTIVE CONDUCTOR (A)	3, 4 OR 5 CORE CABLE (A)	
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

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.