# 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**: Longditudinal Water Blocking Tape
- **Sheath**: Thermoplastic Polyurethane (TPEM)

## Training & Testing Lab

AN ISO/IEC 17025 ACCREDITED FACILITY

**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.

ISO/IEC 17025 Accredited Testing Laboratory

**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

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

| Reference | Conductor Size (mm2) | 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 | CURRENT CARRYING CAPACITY 60oC CONDUCTOR OPERATING TEMPERATURE | | CURRENT CARRYING CAPACITY 90oC 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 |
| ($MM^2$) | (A) | (A) | (A) | (A) | (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 |

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