

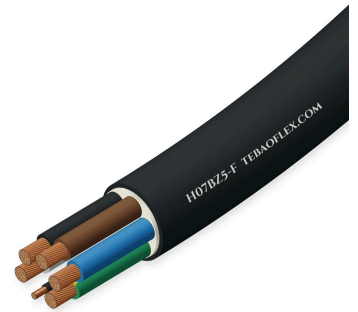


EN 50620 / IEC 62893 AC & DC Electric Vehicle Charging Cables

H07BZ5-F

AC EV Charging Cable

450/750 V EN 50620 heavy-duty Mode 3 AC EV charging cable (7.4 / 11 / 22 / 43 kW, EVM-1 PU)



450/750 V EN 50620 / IEC 62893

7.4 kW / 11 kW / 22 kW / 43 kW

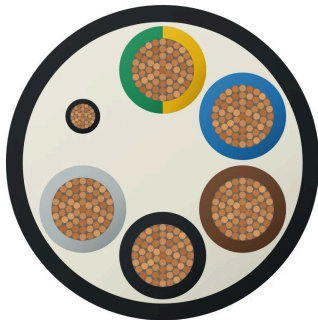
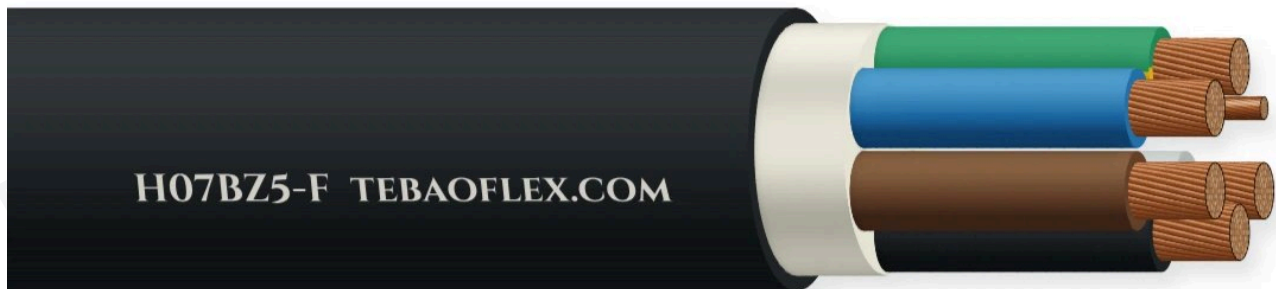
EVI-2 Cores + EVM-1 PUR Sheath

Application

H07BZ5-F is the heavy-duty 450/750 V European and international AC electric vehicle charging cable per BS EN 50620 and IEC 62893-2 (62893 IEC 131). Built with EN 60228 Class 5 fine-stranded copper power cores (2.5 to 16 mm²), 1 or 2 × 0.5/0.75 mm² Control Pilo

Typical uses: Public 22 kW Mode 3 AC bollards, Commercial & workplace EV parking, 7.4 kW / 11 kW / 22 kW Type 2 cords, Municipal bus & van depot AC chargers, Tethered smart home wallboxes

Construction



Cross-section, not to scale

1	Class 5 fine-stranded bare copper	EN 60228
2	Type EVI-2 cross-linked LSZH elastomer	EN 50620
3	Non-woven separator tape	EN 50620
4	Type EVM-1 heavy-duty PUR sheath	EN 50620

Technical data

Typical values

Rated voltage (U0/U)	450 / 750 V AC (power cores) · 30 V AC / 60 V DC (pilot core)	AC test voltage	2.5 kV rms on power cores · 1.0 kV rms on pilot core (15 min)
Pilot & proximity signalling	1 or 2 × 0.50 / 0.75 mm ² cores per IEC 61851-1	Conductor operating temperature	+90 °C max continuous · +250 °C short-circuit (5 s)
Ambient operating temperature	-40 °C to +50 °C flexing · max surface temp ≤+60 °C at rated current	Minimum bending radius	5 × cable OD (free movement) · >30,000 flex cycles in EN 50620 test
Crush & impact resistance	Withstands 11,000 N / 5,000 N vehicle tyre drive-over per EN 50620	Water, oil & chemical resistance	AD7 temporary water immersion; resistant to gasoline, diesel, oil, brake fluid & road salt
Halogen-free & flame retardancy	Halogen-free per EN 60754-1/2 · self-extinguishing per IEC 60332-1-2	Standards	BS EN 50620 & IEC 62893-2 (62893 IEC 131)

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Designation	Power + Pilot Cores	Mode 3 Power / Current	Nom. OD mm	Copper kg/km	Total mass ≈ kg/km	Min. bend R mm
H07BZ5-F size schedule 12 sizes						
☐ 3G2.5 + 1×0.5	3G2.5 + 1×0.5 mm ²	20 A · 4.6 kW 1-Ph	11.20	76.8	178.0	56.0
☐ 3G4.0 + 1×0.5	3G4.0 + 1×0.5 mm ²	25 A · 5.8 kW 1-Ph	12.80	120.0	245.0	64.0
☐ 3G6.0 + 1×0.5	3G6.0 + 1×0.5 mm ²	32 A · 7.4 kW 1-Ph	14.50	177.6	330.0	72.5
☐ 3G6.0 + 2×0.5	3G6.0 + 2×0.5 mm ²	32 A · 7.4 kW CP+PP	14.80	182.4	342.0	74.0
☐ 3G10 + 1×0.75	3G10 + 1×0.75 mm ²	50 A · 11.5 kW 1-Ph	17.80	295.0	510.0	89.0
☐ 5G2.5 + 1×0.5	5G2.5 + 1×0.5 mm ²	20 A · 11 kW 3-Ph	13.60	124.8	270.0	68.0
☐ 5G2.5 + 2×0.5	5G2.5 + 2×0.5 mm ²	20 A · 11 kW CP+PP	13.90	129.6	282.0	69.5
☐ 5G4.0 + 1×0.5	5G4.0 + 1×0.5 mm ²	25 A · 17 kW 3-Ph	15.60	196.8	380.0	78.0
☐ 5G6.0 + 1×0.5	5G6.0 + 1×0.5 mm ²	32 A · 22 kW 3-Ph	17.60	292.8	515.0	88.0
☐ 5G6.0 + 2×0.5	5G6.0 + 2×0.5 mm ²	32 A · 22 kW CP+PP	17.90	297.6	528.0	89.5
☐ 5G10 + 1×0.75	5G10 + 1×0.75 mm ²	50 A · 34 kW 3-Ph	21.80	487.2	810.0	109.0
☐ 5G16 + 1×0.75	5G16 + 1×0.75 mm ²	63 A · 43 kW 3-Ph	25.50	775.2	1,180.0	127.5

– Dimensions and tolerances conform to EN 50620 / IEC 62893-2.

Electrical data

12 sizes

Power + Pilot Cores	Max. DC R @ 20 °C Ω/km	Current in air A	Installed / duty A
3G2.5 + 1×0.5 mm ²	7.980	20	16
3G4.0 + 1×0.5 mm ²	4.950	25	20
3G6.0 + 1×0.5 mm ²	3.300	32	26
3G6.0 + 2×0.5 mm ²	3.300	32	26
3G10 + 1×0.75 mm ²	1.910	50	40
5G2.5 + 1×0.5 mm ²	7.980	20	16
5G2.5 + 2×0.5 mm ²	7.980	20	16
5G4.0 + 1×0.5 mm ²	4.950	25	20
5G6.0 + 1×0.5 mm ²	3.300	32	26
5G6.0 + 2×0.5 mm ²	3.300	32	26
5G10 + 1×0.75 mm ²	1.910	50	40
5G16 + 1×0.75 mm ²	1.210	63	50

– Reference ampacities at +30 °C ambient; apply duty-cycle or grouping correction factors per standard.

Standards and approvals

- ✓ BS EN 50620 (H07BZ5-F)
- ✓ IEC 62893-2 (62893 IEC 131)
- ✓ VDE / TÜV Certified
- ✓ CE / RoHS 3 & REACH Compliant

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/h07bz5-f-ac-ev-charging-cable



Typical values for this cable type, based on EN 50620 / IEC 62893-2. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.