power connection cable series

# EV Power + Cat6A LSZH

## LSZH EV Charge-Point Power and Cat6A Hybrid Cable

BS 6724 0.6/1 kV XLPE/LSZH power + 500 MHz Cat.6A S/FTP EV charger hybrid cable




**0.6/1 kV Power + 500 MHz Cat6A** | **10GBASE-T S/FTP Double Screen** | **CPR Cca / B2ca LSZH Hybrid**

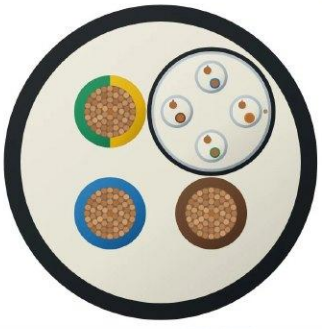
## Application

EV ProInstall Cat6A LSZH EV Charge-Point Power & Cat.6A Hybrid Cable (0.6/1 kV) engineered per BS 6724, BS 7671 Section 722 and EN 50288-10-1 for commercial buildings, underground car parks and smart fleet hubs—combining 90 °C XLPE.

**Typical uses:** Commercial Office & Underground Basement Car Parks, Hospital, University & Airport Public EV Hubs, Smart EV Bollards with ANPR Camera / Payment / Wi-Fi, ISO 15118 Plug & Charge + OCPP 2.0.1 Fleet Depots, High-Rise Residential Podium & Garage EV Trays

## Construction



Cross-section, not to scale

1. 3G or 5G Annealed copper power conductors (6.0 to 16 mm²)
2. 90 °C GP8 Cross-Linked Polyethylene (XLPE) power insulation
3. CPR Cca / B2ca Low-Smoke Zero-Halogen (LSZH) outer sheath

## Technical data

Typical values

| | | | |
|---|---|---|---|
| **Power voltage rating** | 0.6 / 1 kV AC (power cores) · 300/500 V LSZH jacket on Cat.6A unit | **Cat.6A S/FTP performance** | 500 MHz · 10GBASE-T (up to 100 m) · 100 Ω · IEEE 802.3bt Type 4 PoE++ |
| **Power DC resistance @ 20 °C** | 3.08 Ω/km (6.0) · 1.83 Ω/km (10.0) · 1.15 Ω/km (16.0) | **Clipped / tray ampacity** | 54 A (3G6.0) · 75 A (3G10) · 47 A (5G6.0) · 65 A (5G10) · 87 A (5G16) |
| **Max. power conductor temp.** | +90 °C continuous (+250 °C short-circuit) | **Operating ambient range** | -20 °C to +70 °C (fixed) · 0 °C to +50 °C (installation) |
| **PoE++ thermal margin** | 23 AWG Cat.6A S/FTP minimizes DC loop resistance under 90 W PoE++ | **Min. bend radius** | 8 × overall cable OD |
| **Segregation compliance** | Meets BS 7671 Reg 528.1 & EN 50174-2 Cat.6A S/FTP segregation class D | **Gland compatibility** | Fits standard M20 / M25 / M32 IP68 or BS 6121 CW SWA glands |
| **CPR & bunched fire test** | EN 50575 CPR Cca-s1a,d1,a1 (B2ca opt) & BS EN 60332-3-24 | **Acid gas & smoke density** | BS EN 60754-1/2 (pH ≥ 4.3, cond ≤ 2.5 µS/mm) & BS EN 61034-2 (≥ 70 %) |
| **UV & moisture resistance** | UV-stabilized outer LSZH sheath suitable for indoor and outdoor runs | **Standards** | BS 6724 · BS 8436 · BS 7671 Amendment 2 Section 722 |

## Sizes

6 standard constructions

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

| Order designation | Power cores + 500 MHz Cat.6A | Outer Ø ≈ mm | Weight ≈ kg/km | Tray/Clip A | Data class |
|---|---|---|---|---|---|
| **Unarmoured LSZH (Power + Cat.6A S/FTP)** 4 sizes | | | | | |
| ☐ **EV ProInstall 3G6.0 + Cat6A LSZH** | 3×6.0 mm² XLPE + Cat.6A S/FTP | 16.6 | 385 | 54 | 500 MHz 10GbE |
| ☐ **EV ProInstall 5G6.0 + Cat6A LSZH** | 5×6.0 mm² XLPE + Cat.6A S/FTP | 19.4 | 555 | 47 | 500 MHz 10GbE |
| ☐ **EV ProInstall 5G10.0 + Cat6A LSZH** | 5×10.0 mm² XLPE + Cat.6A S/FTP | 22.8 | 825 | 65 | 500 MHz 10GbE |
| ☐ **EV ProInstall 5G16.0 + Cat6A LSZH** | 5×16.0 mm² XLPE + Cat.6A S/FTP | 26.2 | 1,190 | 87 | 500 MHz 10GbE |
| **SWA Armoured LSZH (Power + Cat.6A S/FTP)** 2 sizes | | | | | |
| ☐ **EV ProInstall SWA 5G6.0 + Cat6A** | 5×6.0 mm² + Cat.6A S/FTP + SWA | 22.8 | 1,020 | 46 | 500 MHz 10GbE |
| ☐ **EV ProInstall SWA 5G10.0 + Cat6A** | 5×10.0 mm² + Cat.6A S/FTP + SWA | 26.0 | 1,410 | 63 | 500 MHz 10GbE |

– Also available in 3G10 mm² and 4G configurations, or with dual Cat.6A S/FTP sub-cables for daisy-chained smart pedestals.

## Standards and approvals

- BS 6724 & BS 7671 Sec. 722
- EN 50288-10-1 Cat.6A S/FTP
- EN 50575 CPR Cca LSZH

## 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/lszh-ev-charge-point-power-and-cat6a-hybrid-cable**

Typical values for this cable type, based on BS 6724 / BS 8436 / BS 7671 Sec. 722 / EN 50288-10-1 (Cat.6A). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.