



power connection cable series

EV ProInstall Cat6A

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

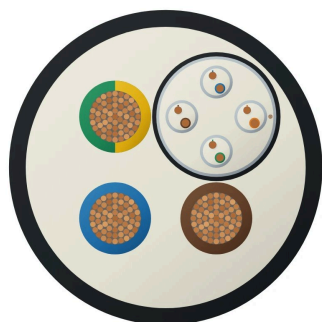
CPR Cca / B2ca LSZH Hybrid

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
- 3 500 MHz Cat.6A S/FTP (4×2×23 AWG PiMF) data sub-cable
- 4 Overall tinned copper braid screen + 300/500 V LSZH sub-jacket
- 5 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 mm ² XLPE + Cat.6A S/FTP	16.6	385	54	500 MHz 10GbE
☐ EV ProInstall 5G6.0 + Cat6A LSZH	5×6.0 mm ² XLPE + Cat.6A S/FTP	19.4	555	47	500 MHz 10GbE
☐ EV ProInstall 5G10.0 + Cat6A LSZH	5×10.0 mm ² XLPE + Cat.6A S/FTP	22.8	825	65	500 MHz 10GbE
☐ EV ProInstall 5G16.0 + Cat6A LSZH	5×16.0 mm ² 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 mm ² + Cat.6A S/FTP + SWA	22.8	1,020	46	500 MHz 10GbE
☐ EV ProInstall SWA 5G10.0 + Cat6A	5×10.0 mm ² + 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.