EV Charging Station & Hybrid Feeder Cables

EV Power + Cat6A SWA LSZH

Armoured LSZH EV Charge-Point Power and Cat6A SWA Hybrid Cable

BS 6724 / BS 7671 0.6/1 kV 3G4–5G16 mm² XLPE power + screened Cat6A SWA armoured LSZH EV



BS 6724 / BS 7671 Section 722 | **0.6/1 kV XLPE + Cat6A F/FTP**

SWA Armoured · LSZH 3G4–5G16

Application

EV ProInstall Cat6A SWA is a single-pull 0.6/1 kV armoured hybrid EV charge-point feeder cable engineered to BS 6724, BS 5467, and BS 7671 (IET Section 722), combining 3-core (single-phase 7.4 kW) or 5-core (three-phase 22 kW) 90 °C XLPE-insulated copper

Typical uses: 7.4 kW & 22 kW AC EV charge points, Commercial car parks & fleet depots, Dynamic CT-clamp load management, OCPP hardwired smart EV pedestals

Construction





Cross-section, not to scale

1	Class 2 stranded copper power + Cat6A	BS EN 60228 / IEC 61156-5
2	90 °C XLPE power + Foam-PE Cat6A	BS 6724 / ISO/IEC 11801
3	Cat6A sub-sheath & extruded LSZH bedding	BS 6724 / BS 7671 Reg 528.1
4	Galvanized steel wire armour (SWA)	BS 6724
5	Outer sheath (LSZH LTS1)	BS 6724 / EN 50575

Technical data

Typical values

Power rated voltage U0/U	0.6/1 kV AC (1,000 V RMS)	Power routine dielectric test	3,500 V AC for 5 minutes
Cat6A sub-element isolation	Tested to 3.5 kV AC for BS 7671 Band I	Cat6A impedance & bandwidth	100 Ω ± 5 Ω · 1 to 500 MHz (10GBASE-T Class
Max. conductor temp. (XLPE)	+90 °C continuous · +250 °C short-circuit	Operating temperature range	-25 °C to +90 °C (power) / +75 °C (Cat6A
Minimum installation temp.	0 °C	Min. bending radius	8 × overall diameter (D)
Direct burial & impact resistance	BS 6724 SWA mechanical impact protection	Low smoke & zero halogen	BS EN 61034-2 (≥ 60 % light transmittance)
Flame retardancy	BS EN 60332-1-2 & BS EN 60332-3-24 Cat C	Standards	BS 6724 / BS 5467 · BS 7671 (18th Ed.

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	Cores × Size	Main cross-section	Outer Ø ≈ mm	Copper kg/km	Weight ≈ kg/km	Min. bend R fixed mm
Standard EV ProInstall Cat6A SWA configurations 6 sizes						
☐ EV ProInstall 3G4 mm² + Cat6A SWA LSZH	3G4 + 4×2×23AWG Cat6A	4.0 mm²	17.8	135	540	142
☐ EV ProInstall 3G6 mm² + Cat6A SWA LSZH	3G6 + 4×2×23AWG Cat6A	6.0 mm²	19.2	192	645	154
☐ EV ProInstall 3G10 mm² + Cat6A SWA LSZH	3G10 + 4×2×23AWG Cat6A	10.0 mm²	21.6	308	860	173
☐ EV ProInstall 5G6 mm² + Cat6A SWA LSZH	5G6 + 4×2×23AWG Cat6A	6.0 mm²	21.8	305	890	174
☐ EV ProInstall 5G10 mm² + Cat6A SWA LSZH	5G10 + 4×2×23AWG Cat6A	10.0 mm²	24.8	498	1,210	198
☐ EV ProInstall 5G16 mm² + Cat6A SWA LSZH	5G16 + 4×2×23AWG Cat6A	16.0 mm²	27.6	785	1,590	221

– Outer diameters and weights are nominal factory values subject to ±5 % manufacturing tolerance per BS 6724 / BS 5467 / BS 7671 & IEC 61156-5 (EV Power + Cat6A SWA).

Electrical & ampacity

6 sizes

Configuration	Max. DC R @ 20 °C Ω/km	Iz free air A	Iz tray / duct A	Isc (1 s) kA	Voltage drop mV/A/m	Dielectric test V
3G4 + 4×2×23AWG Cat6A	4.61	42	37	0.57	11.00	3,500
3G6 + 4×2×23AWG Cat6A	3.08	53	47	0.86	7.30	3,500
3G10 + 4×2×23AWG Cat6A	1.83	73	65	1.43	4.40	3,500
5G6 + 4×2×23AWG Cat6A	3.08	46	41	0.86	6.40	3,500
5G10 + 4×2×23AWG Cat6A	1.83	63	56	1.43	3.80	3,500
5G16 + 4×2×23AWG Cat6A	1.15	85	76	2.29	2.40	3,500

– Conductor DC resistance at +20 °C per IEC 60228 and reference current ratings at 30 °C ambient per BS 6724 / BS 5467 / BS 7671 & IEC 61156-5 (EV Power + Cat6A SWA).

Standards and approvals

- ✓ BS 6724 / BS 5467
- ✓ BS 7671 Section 722
- ✓ ISO/IEC 11801 Cat6A

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/armoured-lszh-ev-charge-point-power-and-cat6a-hybrid-cable

Typical values for this cable type, based on BS 6724 / BS 5467 / BS 7671 & IEC 61156-5 (EV Power + Cat6A SWA). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.