power connection cable series

EV Power + Cat5e SWA

Armoured EV Charge-Point Power and Cat5e SWA Hybrid Cable

BS 5467 / 6724 0.6/1 kV SWA steel-wire-armoured power + Cat.5e EV charger cable



BS 5467 / 6724 SWA Armoured | **0.6/1 kV Power + Screened Cat5e** | **Direct-Burial EV Charger Cable**

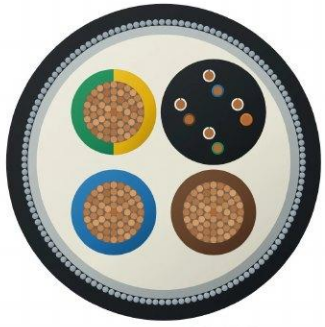
Application

ConnectEV SWA Armoured EV Charge-Point Power & Cat.5e Hybrid Cable (0.6/1 kV) engineered per BS 5467, BS 6724 and BS 7671 Section 722 for direct-buried driveways, car parks and commercial EV charging posts—combining 90 °C XLPE copper.

Typical uses: Direct-Buried Driveway & Detached Garage EV Chargers, Commercial Car Park & Workplace Pedestal EV Bollards, Supermarket, Hotel & Fleet Depot AC Charge Points, Solar PV + Battery + Dynamic CT-Clamp EV Load Balancing, Underground Basement Car Park SWA Distribution

Construction





Cross-section, not to scale

1. 3G, 4G or 5G Class 2 stranded copper power conductors
2. 90 °C GP8 Cross-Linked Polyethylene (XLPE) power insulation
3. Screened Cat.5e F/UTP (4×2×24 AWG) sub-cable + inner bedding
4. Concentric Galvanized Round Steel Wire Armour (SWA)
5. Black UV-stabilized LSZH (BS 6724) or PVC (BS 5467) outer sheath

Technical data

Typical values

Power voltage rating	0.6 / 1 kV AC (power cores) · 300/500 V sub-jacket on Cat.5e	**Cat.5e data performance**	100 MHz Category 5e F/UTP · 100 Ω · Ethernet / CT clamp / RS-485
Buried / clipped ampacity	44 A (3G4.0) · 56 A (3G6.0) · 77 A (3G10) · 102 A (3G16) · 67 A (5G10)	**Dedicated copper PE core**	Includes full-size Green/Yellow copper PE core plus earthed SWA armour
Max. power conductor temp.	+90 °C continuous (+250 °C short-circuit)	**Operating ambient range**	-25 °C to +70 °C (fixed / buried) · 0 °C to +50 °C (during laying)
Ground thermal resistivity	Ampacities rated at standard 20 °C soil and 2.5 K·m/W	**SWA wire diameter**	0.9 mm (3G4–5G4) · 1.25 mm (3G6–5G10) · 1.6 mm (5G16)
Min. bend radius	8 × overall cable OD	**BS 6121 SWA gland size**	20S / 20 (3G4, 3G6) · 20 / 25 (3G10, 5G4, 5G6) · 25 / 32 (5G10, 5G16)
Direct burial & crush	Concentric steel wire armour resists trench backfill, vehicle load & spades	**Fire & LSZH performance**	BS EN 60332-1-2 / 60332-3-24 · BS EN 60754-1 & BS EN 61034-2 (LSZH)
Water & UV resistance	Waterproof polymeric outer sheath UV-stabilized for outdoor risers	**Standards**	BS 5467 & BS 6724 · BS 7671 Amendment 2 Section 722

Sizes

7 standard constructions

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

Order designation	Power + Data + SWA wire	CW Gland size	Outer Ø ≈ mm	Weight ≈ kg/km	Clipped A
Single-Phase 7.4 kW SWA (3G + Cat.5e) 4 sizes					
☐ ConnectEV SWA 3G4.0 + Cat5e	3×4.0 mm² + Cat5e + 0.9mm SWA	CW 20	16.8	540	42
☐ ConnectEV SWA 3G6.0 + Cat5e	3×6.0 mm² + Cat5e + 1.25mm SWA	CW 20	18.8	740	53
☐ ConnectEV SWA 3G10.0 + Cat5e	3×10.0 mm² + Cat5e + 1.25mm SWA	CW 25	21.4	985	73
☐ ConnectEV SWA 3G16.0 + Cat5e	3×16.0 mm² + Cat5e + 1.25mm SWA	CW 25	23.6	1,290	97
Three-Phase 11 / 22 kW SWA (5G + Cat.5e) 3 sizes					
☐ ConnectEV SWA 5G6.0 + Cat5e	5×6.0 mm² + Cat5e + 1.25mm SWA	CW 25	21.6	960	46
☐ ConnectEV SWA 5G10.0 + Cat5e	5×10.0 mm² + Cat5e + 1.25mm SWA	CW 25/32	24.8	1,340	63
☐ ConnectEV SWA 5G16.0 + Cat5e	5×16.0 mm² + Cat5e + 1.6mm SWA	CW 32	28.4	1,920	85

– 4G (3-phase + neutral, using SWA as CPC) and 2-pair Cat.5e CT-only variants are also available.

Standards and approvals

- BS 5467 & BS 6724 Compliant
- BS 7671 Sec. 722 & Reg 522.8.10
- CE, UKCA & CPR 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/armoured-ev-charge-point-power-and-cat5e-hybrid-cable

Typical values for this cable type, based on BS 5467 / BS 6724 / BS 7671 Amendment 2 (Section 722) / EN 50288-2-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.