BS 6724 BS 6724 XLPE-SWA-LSZH

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BS 6724 0.6/1 kV Cu/XLPE/LSZH/SWA/LSZH Low-Smoke Zero-Halogen

BS 6724 / IEC 60502-1 · 0.6/1 kV – 1.9/3.3 kV · −25…+90 °C industrial BS 6724



BS 6724 / IEC 60502-1 | 0.6/1 kV – 1.9/3.3 kV | −25…+90 °C

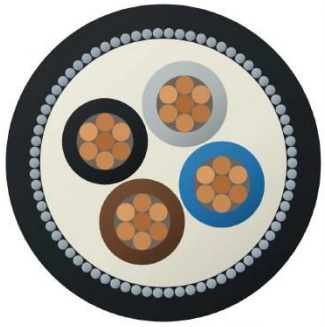
Application

BS 6724 0.6/1 kV Cu/XLPE/LSZH/SWA/LSZH Low-Smoke Zero-Halogen Armoured Cable (BS 6724 XLPE-SWA-LSZH) engineered to BS 6724 / IEC 60502-1 for 0.6/1 kV – 1.9/3.3 kV service across −25…+90 °C, featuring stranded copper conductor and lszh outer sheath with

Typical uses: Commercial & Residential Building Distribution, Data Centers & Public Infrastructure, Fire-Safe Evacuation & Riser Shafts, Industrial Plant Balance-of-Plant Wiring, 25 kV AC & 1.5/3 kV DC Railway Overhead Catenary

Construction





Cross-section, not to scale

1	Stranded copper conductor	BS 6724 / IEC 60502-1
2	XLPE core insulation	BS 6724 / IEC 60502-1
3	Non-hygroscopic bedding	BS 6724 / IEC 60502-1
4	Galvanized steel wire armour	BS 6724 / IEC 60502-1
5	LSZH outer sheath	BS 6724 / IEC 60502-1

Technical data

Typical values

Rated voltage / duty	0.6/1 kV – 1.9/3.3 kV (BS 6724 / IEC 60502-1)	**Conductor construction**	Stranded copper conductor — High-conductivity copper conductor per BS 6724 / IEC 60502-1
Primary insulation / dielectric	XLPE core insulation — Extruded XLPE dielectric (individual core / group layer)	**Continuous operating temperature**	−25…+90 °C per BS 6724 / IEC 60502-1
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s adiabatic limit depending on dielectric class)	**Minimum installation temperature**	−5 °C (thermoplastic) / −25 °C (cross-linked or elastomer) / −40 °C (metallic)
Outer protection / covering	LSZH outer sheath — Extruded LSZH outer sheath protective layer (continuous layer)	**Minimum bending radius**	8 × OD (installed / static routing)
Layer count & geometry	5 concentric/structural layers verified by cross-section inspection	**Environmental & chemical durability**	Engineered for industrial service in accordance with BS 6724 / IEC 60502-1
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant	**Standards**	BS 6724 / IEC 60502-1

Sizes

12 standard constructions

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

Order designation	Configuration	Outer Ø ≈ mm	Weight ≈ kg/km	Min. bend R fixed mm
BS 6724 XLPE-SWA-LSZH Standard Production Schedule (0.6/1 kV – 1.9/3.3 kV · −25…+90 °C) 12 sizes				
☐ **BS 6724 XLPE-SWA-LSZH 3G1.5**	**3 × 1.5 mm²**	**8.4**	**105**	**68**
☐ **BS 6724 XLPE-SWA-LSZH 4G1.5**	**4 × 1.5 mm²**	**9.2**	**128**	**74**
☐ **BS 6724 XLPE-SWA-LSZH 5G1.5**	**5 × 1.5 mm²**	**10.1**	**156**	**81**
☐ **BS 6724 XLPE-SWA-LSZH 3G2.5**	**3 × 2.5 mm²**	**9.8**	**148**	**78**
☐ **BS 6724 XLPE-SWA-LSZH 4G2.5**	**4 × 2.5 mm²**	**10.8**	**186**	**86**
☐ **BS 6724 XLPE-SWA-LSZH 5G2.5**	**5 × 2.5 mm²**	**11.9**	**228**	**95**
☐ **BS 6724 XLPE-SWA-LSZH 4G4**	**4 × 4.0 mm²**	**12.6**	**268**	**101**
☐ **BS 6724 XLPE-SWA-LSZH 4G6**	**4 × 6.0 mm²**	**14.2**	**365**	**114**
☐ **BS 6724 XLPE-SWA-LSZH 4G10**	**4 × 10 mm²**	**17.5**	**580**	**140**
☐ **BS 6724 XLPE-SWA-LSZH 4G16**	**4 × 16 mm²**	**20.4**	**845**	**163**
☐ **BS 6724 XLPE-SWA-LSZH 4G25**	**4 × 25 mm²**	**24.8**	**1,290**	**198**
☐ **BS 6724 XLPE-SWA-LSZH 4G35**	**4 × 35 mm²**	**27.9**	**1,710**	**223**

– Single-core and multi-core sizes from 0.5 mm² up to 630 mm² (or AWG/kcmil) available per BS 6724 / IEC 60502-1.

Conductor resistance & current-carrying capacity

8 sizes

Cross-section	Max. DC R_{20} Ω/km	Current in air A (30 °C) ≈	Voltage drop mV/A·m
1.5 mm² (AWG 16)	**13.30**	**18**	**29.0**
2.5 mm² (AWG 14)	**7.98**	**26**	**17.5**
4.0 mm² (AWG 12)	**4.95**	**34**	**10.9**
6.0 mm² (AWG 10)	**3.30**	**44**	**7.3**
10 mm² (AWG 8)	**1.91**	**61**	**4.2**
16 mm² (AWG 6)	**1.21**	**82**	**2.7**
25 mm² (AWG 4)	**0.78**	**108**	**1.7**
35 mm² (AWG 2)	**0.55**	**135**	**1.2**

– Current ratings are for 3 loaded conductors at 30 °C ambient in free air/tray per IEC 60364-5-52 / NEC.

Standards and approvals

- BS 6724 Compliant
- EN 10204 3.1 Routine Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

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/bs-6724-xlpe-swa-lszh-armoured-low-smoke-power-cable

Typical values for this cable type, based on BS 6724 / IEC 60502-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.