

**BS 6724 Steel Wire Armour  
Copper Conductor Multicore LSZH Control Cable**

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**RoHS  
Compliant**

**Application:**

SWA Cable - power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

**Cable Standards:**

Made in accordance with the following:

BS 6724, BS EN/IEC 60502-1, BS EN/IEC 60754-1 and 2  
BS EN 50267-2-1 and 2, BS EN/IEC 61034-1,  
BS EN/IEC 60332-1-2, BS EN/IEC 60332-3-24.

**Construction:**

Conductor : Class 2 stranded copper conductor according to BS EN 60228 (previously BS 6360)  
Insulation : XLPE (Cross-Linked Polyethylene) Type GP8 according to BS 7655  
Bedding : LSZH (Low Smoke Zero Halogen) Type LTS1 according to BS 7655  
Armour : SWA (Steel Wire Armour)  
Sheath : LSZH (Low Smoke Zero Halogen) Type LTS1 according to BS 7655

**Characteristics:**

Voltage Rating (Uo/U) : 600/1,000V  
Temperature Rating : Fixed installation : -20°C to +90°C  
Min. Bending Radius : 1.5mm<sup>2</sup> to 16mm<sup>2</sup> - Fixed: 6 × overall diameter  
25mm<sup>2</sup> and above - Fixed: 8 × overall diameter  
Core Identification : 3 core: Brown, Black & Grey  
4 core: Brown, Blue, Black & Grey  
Sheath Colour : Black

**Electrical Characteristics XLPE/SWA/LSZH:**

Current Carrying Capacity

Nominal Cross Sectional Area mm <sup>2</sup>	Reference Method C (Clipped Direct) Amps		Reference Method E (In Free Air or on a Perforated Cable Tray, Horizontal or Vertical) Amps		Reference Method D (Direct in Ground or in Ducting in Ground, in or Around Buildings) Amps	
	1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC	1 Two Core Cable Single-Phase AC or DC	1 Three or 1 Four Core Cable Three-Phase AC
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44

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Air ambient temperature : 30°C  
 Ground ambient temperature : 20°C  
 Conductor operating temperature : 90°C

## Notes

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 17th Edition of IEE Wiring Regulations).
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D4A) must be used (see also Regulation 523.1 of the 17th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E4A of the 17th Edition of IEE Wiring Regulations.

## Voltage Drop

Nominal Cross Sectional Area mm <sup>2</sup>	Two Core Cable DC	Two Core Cable Single-Phase AC mV/A/m	Three or Four Core Cable Three-Phase AC mV/A/m
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8

Conductor operating temperature: 90°C

## Conductors:

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

Nominal Cross Sectional Area mm <sup>2</sup>	Min. No. of Wires in Conductor						Max. Resistance of Conductor at 20°C
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor Plain Wires Ω/km
	Cu	Al	Cu	Al	Cu	Al	
1.5	7	-	6	-	-	-	12.1
2.5	7	-	6	-	-	-	7.41
4	7	-	6	-	-	-	4.61
6	7	-	6	-	-	-	3.08

The above table is in accordance with BS EN 60228 (previously BS 6360)

## Dimensions:

BS5467 XLPE/LSZH/SWA/LSZH (Copper)

Part Number	No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Diameter mm		Nominal Weight kg/km
				Under Armour	Overall	
PP000910	3	1.5	0.6	7.8	12.6	330
PP000911	3	2.5	0.7	9.2	14.1	390

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Part Number	No. of Cores	Nominal Cross Sectional Area mm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Diameter mm		Nominal Weight kg/km
				Under Armour	Overall	
PP000912	3	4	0.7	10	15.3	464
PP000913	3	6	0.7	11.2	16.6	568
PP000914	4	1.5	0.6	8.5	13.5	365
PP000915	4	2.5	0.7	9.9	15	438

**Part Number Table**

Description	Reel Length (m)	Part Number
BS 6724 Steel Wire Armour Copper Conductor Multicore LSZH Control Cable	50	PP000910
		PP000911
		PP000912
		PP000913
		PP000914
		PP000915

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