Multi Core SWA LSZH Cable Range

Steel Wire Armoured Multi-Core Cables

(Complies with BS 6724:2016)

CPR COMPLIANT

BCC
BRITISH CABLES COMPANY

Class 2 Stranded Copper/ XLPE Insulation / Low Smoke Zero
Halogen Bedding Layer / Galvanized Steel Wire Armour Wires /
Low Smoke Zero Halogen Sheath

Application

Designed for industrial wiring, mains power distribution and associated
fixed wiring applications. Suitable for direct burial, installed in ducts or
clipped to surface. Indoor and outdoor applications.

The cable is manufactured with a Low Smoke Zero Halogen (LSZH) sheath,
making it suitable for installations in public buildings where, in the event of
fire, smoke and acid gas evolution would pose a hazard to public life and
equipment.

Cable Description

Class 2 stranded copper conductor,
Low smoke zero halogen cross linked polyethylene (XLPE) insulation,
Low smoke zero halogen (LSZH) bedding layer
Galvanized Steel Wire Armour,
Low smoke zero halogen (LSZH) outer sheath.

N.B. In the event of fire, the gases evolved from this cable are free from Halogen and the design is optimised to limit the quantity and cleanliness of the smoke evolved
during this period. Although the acronym HFFR is applied to the sheath material, the terms LSOH, HFFR and HFFR are also applicable.

Insulation Colours

2 Core - Blue, Brown,

3 Core – Brown, Black, Grey

4 Core – Blue, Brown, Black, Grey

Sheath Colour

Black

Third party Accreditation

BRITISH APPROVALS SERVICE FOR CABLES
BASEC ®

Cables are tested and approved by
BASEC (British Approvals Service for Cables)

British Cables Company Limited, Delaunays Road, Blackley, Manchester, M9 8FP, United Kingdom

Tel: +44 (0) 161 741 2345 | Fax: +44 (0) 161 795 8393 | Web: www.britishcablescompany.com | Email: info@britishcables.com

Disclaimer: Great effort is made to ensure the accuracy of the information presented, but errors may occur.

Specification and availability should be confirmed with a call to our sales representatives. ©British Cables company Limited

Physical characteristics

No of Cores	Conductor Class	Nominal Cross-Sectional Area	Nominal Insulation	Nominal Diameter Under Armour (mm)	Nominal Overall Diameter	Maximum Conductor 20˚C (ohms/km)	Approx. Weight of Cable (kg/km)
2	2	1.50	0.60	7.30	12.10	12.10	302
2	2	2.50	0.70	8.50	13.60	7.41	346
2	2	4.00	0.70	9.40	14.70	4.61	410
2	2	6.00	0.70	10.5	15.90	3.08	499
2	2	10.0	0.70	12.3	18.00	1.83	648
2	2	16.0	0.70	14.3	20.40	1.15	978
3	2	1.50	0.60	7.80	12.60	12.10	330
3	2	2.50	0.70	9.20	14.10	7.41	390
3	2	4.00	0.70	10.0	15.30	4.61	464
3	2	6.00	0.70	11.2	16.60	3.08	568
3	2	10.0	0.70	13.1	19.50	1.83	866
3	2	16.0	0.70	15.3	21.60	1.15	1152
4	2	1.50	0.60	8.50	13.50	12.10	365
4	2	2.50	0.70	9.90	15.00	7.41	438
4	2	4.00	0.70	11.0	16.40	4.61	532
4	2	6.00	0.70	12.3	18.70	3.08	764
4	2	10.0	0.70	14.5	21.10	1.83	1013
4	2	16.0	0.70	17.0	23.40	1.15	1360

Mechanical characteristics

Characteristic	Unit	Value
Operating Temperature Range	˚C	-10 / +90
Minimum Bend Radius	Diameter	6D

Electrical characteristics at 20ºC

Characteristic	Unit	Value
Voltage Rating Uo/U	V	0.6/1kV
Current Rating Table	-	4E4A & 4E4B (BS7671)

Notes

Fire Performance

Test	Test Method	Value	Comment
Fume Emission	XR-F	No halogen, nitrogen, phosphorous or Sulphur containing com-pounds (trace elements ≤ 0.5% w/w)	Compliant
Single Cable Vertical Burn Test	BS EN 60332-1: 2004	Onset of char (from top support): > 50mm Extent of char (from top support): < 540mm	Compliant
Bunched Cable Vertical Burn Test	BS EN 50399	PHR / THR / FIGRA / SPR / TSP / d	Compliant
Acid Gas Emission	BS EN 50267-2-1: 1999	Less than 5mg/g	Compliant
Smoke Emission	BS EN 61034-2: 2005	Minimum light transmittance >60%	Compliant
CPR Euro Classification	BS EN 50575-201 4 AI-2016	Dca	