



Draka

OHLS **SAFFIRE**[®] BS6724

Saffire BS6724 – Armoured Zero Halogen, Low Smoke (OHLS[®])

Saffire BS6724 is the OHLS[®] armoured power cable for industrial wiring and mains distribution where thick black smoke and acid gas emission would pose a major hazard during a fire. Designed for use in public areas these cables can be installed with in ducts, clipped directly to a surface, on trays, in basket or in free air. They may also be laid direct in ground in free draining soil and embedded in concrete. LU approved cable (LU Approval ref 268, only on 2/3/4 core).



Construction

Conductors:	Stranded plain annealed copper wire (class 2) to BS EN 60228.
Insulation:	XLPE
Binder:	Polyester tape
Bedding:	Zero Halogen, Low Smoke (OHLS [®])
Armour:	Galvanised Steel Wire Armour (Aluminium Wire Armour for single core)
Sheath:	Zero Halogen, Low Smoke (OHLS [®])
Core colours:	Single core: Brown or Blue Two core: Brown and Blue Three core: Brown, Black and Grey Four core: Brown, Black, Grey and Blue Five core: Brown, Black, Grey, Blue and Green/Yellow
Sheath colour:	Black

Physical Characteristics

Voltage rating (U_o/U):	600/1000V
Max, conductor temp:	90°C Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see regulation 512-1-5 of BS7671, the 17th Edition of IEE Wiring Regulations)
Min, bending radius:	6D circular conductors 8D shaped conductors
Current rating:	Refer to tables 4E4A & 4E4B in BS7671 or ERA 69-30 Part V

Performance Characteristics

Smoke emission:	BS EN 61034-2
Acid gas emission:	BS EN 50267-2-1
Flame propagation:	BS EN 60332-3-24

Other colours available on request

A brand of the

Prysmian
Group



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OHLS
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BS6724

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Single Core 694AWLSH

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20°C Ω/km	AC at 90°C Ω/km		
120*	1.25	17.7	24.2	1540	0.1530	0.1962	52	0.61
150*	1.5	19.5	26.2	1840	0.1240	0.1594	76	0.42
185*	1.6	21.6	28.4	2230	0.0991	0.1280	84	0.38
240*	1.6	23.8	30.6	2800	0.0754	0.0985	94	0.34
300*	1.6	26.4	33.4	3435	0.0601	0.0787	104	0.31
400*	2.0	30.1	38.1	4385	0.0470	0.0635	147	0.22
500*	2.0	33.9	42.1	5535	0.0366	0.0513	163	0.20
630*	2.0	38.2	46.6	6990	0.0283	0.0419	182	0.18
800*	2.5	43.4	53.2	9770	0.0221	0.0348	260	0.13
1000*	2.5	48.3	58.2	11355	0.0176	0.0303	284	0.12

Two Core 6942LSH

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20°C Ω/km	AC at 90°C Ω/km		
15*	0.9	6.8	10.8	240	1.21	15.428	15	10.2
2.5*	0.9	8.2	12.2	305	7.41	9.448	17	8.8
4*	0.9	9.3	13.3	370	4.61	5.878	19	7.9
6*	0.9	10.4	14.4	445	3.08	3.927	22	7
10*	0.9	12.0	16.2	580	1.83	2.333	26	6
16*	1.25	14.1	19.0	870	1.15	1.465	42	3.7
25	1.25	15.1	20.7	1090	0.727	0.926	42	3.7
35	1.6	16.7	23.2	1470	0.524	0.6685	60	2.6
50	1.6	19.2	25.9	1845	0.387	0.494	68	2.3
70	1.6	22.2	29.0	2385	0.268	0.3412	80	2
95	2.0	23.8	31.3	3025	0.193	0.2471	113	1.4
120	2.0	27.2	34.8	3675	0.153	0.1964	125	1.3
150	2.0	29.7	37.5	4390	0.124	0.1597	138	1.2
185	2.5	33.1	42.3	5635	0.0991	0.1284	191	0.82
240	2.5	37.8	47.2	7000	0.0754	0.0989	215	0.73
300	2.5	42.1	51.7	8480	0.0601	0.0801	235	0.67
400	2.5	46.9	56.8	10390	0.047	0.0641	265	0.59

Three Core 6943LSH

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20°C Ω/km	AC at 90°C Ω/km		
15*	0.9	7.4	11.2	265	1.21	15.428	16	9.5
2.5*	0.9	8.7	12.7	340	7.41	9.448	19	8.2
4*	0.9	9.9	13.9	420	4.61	5.878	20	7.5
6*	0.9	11.1	15.1	510	3.08	3.927	23	6.7
10*	1.25	12.8	17.7	780	1.83	2.333	39	4
16*	1.25	15.1	20.1	1035	1.15	1.465	45	3.5
25*	1.6	18.9	25.2	1715	0.727	0.926	62	2.5
35*	1.6	21.2	27.7	2100	0.524	0.6685	68	2.3
50	1.6	22.1	28.8	2410	0.387	0.494	78	2
70	1.6	25.3	32.1	3160	0.268	0.3412	90	1.8
95	2.0	28.3	36.0	4100	0.193	0.2471	128	1.3
120	2.0	31.4	39.3	4980	0.153	0.1964	141	1.2
150	2.5	35.3	44.3	6340	0.124	0.1597	201	0.78
185	2.5	39.1	48.3	7590	0.0991	0.1284	220	0.71
240	2.5	43.9	53.5	9575	0.0754	0.0989	250	0.63
300	2.5	48.7	58.4	11565	0.0601	0.0801	269	0.58
400	2.5	54.4	64.5	14345	0.047	0.0641	304	0.52

Four Core 6944LSH

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20°C Ω/km	AC at 90°C Ω/km		
1.5*	0.9	8.4	11.9	300	1.21	15.428	17	8.8
2.5*	0.9	9.6	13.6	385	7.41	9.448	20	7.7
4*	0.9	10.9	14.9	480	4.61	5.878	22	6.8
6*	1.25	12.3	17.2	690	3.08	3.927	36	4.3
10*	1.25	14.2	19.0	920	1.83	2.333	42	3.7
16*	1.25	16.7	21.8	1240	1.15	1.465	50	3.1
25*	1.6	21.1	27.4	1890	0.727	0.926	70	2.3
35*	1.6	23.6	30.1	2475	0.524	0.6685	78	2
50	1.6	24.3	31.1	2965	0.387	0.494	90	1.8
70	2.0	28.5	36.2	4040	0.268	0.3412	131	1.2
95	2.0	32.0	39.9	5170	0.193	0.2471	147	1.1
120	2.5	35.9	44.9	6475	0.153	0.1964	205	0.76
150	2.5	39.9	49.1	7965	0.124	0.1597	230	0.68
185	2.5	44.4	53.9	9655	0.0991	0.1284	255	0.61
240	2.5	49.7	59.4	12195	0.0754	0.0989	289	0.54
300	2.5	55.2	65.3	14820	0.0601	0.0801	319	0.49
400	3.15	62.1	74.0	19900	0.047	0.0641	452	0.35

Five Core 6945LSH

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20°C Ω/km	AC at 90°C Ω/km		
1.5*	0.9	8.9	12.9	345	1.21	15.428	19	8.2
2.5*	0.9	10.6	14.6	440	7.41	9.448	22	6.8
4*	0.9	12.0	16.3	565	4.61	5.878	25	6.2
6*	1.25	13.8	18.5	795	3.08	3.927	40	3.9
10*	1.25	15.6	20.8	1080	1.83	2.333	46	3.4
16*	1.6	19.9	24.8	1670	1.15	1.465	72	2.2
25*	1.6	22.8	29.2	2185	0.727	0.926	88	1.8
35*	1.6	25.4	32.3	2915	0.524	0.6685	100	1.6



DrakaSAFFIREBS6724(01)2019

*Circular conductor, all others are shaped conductor

Certificate of Product Approval

Licensee:

Draka UK Ltd

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Standard:

BS 6724:2016 Incorporating Corrigenda Nos. 1 and 2

Description:

Thermosetting insulated, armoured cables with rated voltages of 600/1000V with Low Smoke, Halogen Free sheathing

Details:

N/A

Materials:

Insulation GP 8, Sheath LTS 1

Brand Name:

N/A

Origin Mark:

DRAKA UK (B)

Permissible Approval Marks:

BASEC



BASEC name

BASEC roundel

Signed for and on behalf of the British Approvals Service for Cables

Tony Lioveri

Date: 17/11/2020

Date of original issue: 06/10/2012

Check BASEC website to verify validity.

Page 1 of 2

BASEC, Presley House, Presley Way, Milton Keynes, MK8 0ES,

Registered in England No. 1150237, Tel: +44(0)1908267300

Email: mail@basec.org.uk, Web: www.basec.org.uk



Expiry date:
11/08/2023



Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
5	6942B	Class 2	2	1.5	70
6	6943B	Class 2	3	1.5	70
7	6944B	Class 2	4	1.5	70
8	6945B	Class 2	5	1.5	10
9	6947B	Class 2	7	1.5	4
9	6940/12B	Class 2	12	1.5	4
9	6940/19B	Class 2	19	1.5	4
9	6940/27B	Class 2	27	1.5	4
9	6940/37B	Class 2	37	1.5	4

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Expiry date:
11/08/2023



Certificate of Product Approval

Licensee:

Draka UK Ltd

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:

Harriet Street

Trecynon, Aberdare, CF44 0TD, Glamorgan, United Kingdom

Standard:

BS 6724:2016 Incorporating Corrigenda Nos. 1 and 2

Description:

Thermosetting insulated, armoured power cables with rated voltages of 600/1000V with Low Smoke, Halogen Free sheathing

Details:

Materials:

Insulation GP 8, Sheath LTS 1

Brand Name:

Origin Mark:

DRAKA UK (A)

Permissible Approval Marks:

BASEC



BASEC name

BASEC roundel

Signed for and on behalf of the British Approvals Service for Cables

Tony Lioveri

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Date of original issue: 06/10/2012

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Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
5	6942B	Class 2	2	1.5	35
6	6943B	Class 2	3	1.5	35
7	6944B	Class 2	4	1.5	35
8	6945B	Class 2	5	1.5	16

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Certificate of Product Approval

Licensee:

Draka UK Ltd

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:
Oak Road

Wrexham Industrial Estate, Wrexham, LL13 9PH, Clwyd, United Kingdom

Standard:

BS 6724:2016 Incorporating Corrigenda Nos. 1 and 2

Description:

Thermosetting insulated, armoured cables with rated voltages of 600/1000V with Low Smoke Halogen Free sheathing

Details:

N/A

Materials:

Insulation GP 8, Sheath LTS 1

Brand Name:

N/A

Origin Mark:

DRAKA UK (W)

Permissible Approval Marks:

BASEC



BASEC name

BASEC roundel

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Tony Lioveri

Date: 13/01/2021

Date of original issue: 06/10/2012

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Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size -sqmm
4	6941B	Class 2	1	95	1000
5	6942B	Class 2	2	70	400
6	6943B	Class 2	3	70	400
7	6944B	Class 2	4	70	400

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