



Draka

OHLS **SAFFIRE**[®] 6491B

Saffire 6491B - Single Core Zero Halogen, Low Smoke (OHLS[®])

Draka Saffire 6491B is a single core OHLS[®] wiring cable designed for installation within conduit, trunking or inside fixed protected environments, such as appliances, switchgear and control gear. The cable is ideal as part of the wiring for non-emergency systems in public buildings where reduction in the volume of smoke and acid gas emissions is beneficial.



Construction

Manufacturing standard:	BS EN 50525-3-41
Harmonized code:	H07Z - R
Conductors:	Stranded plain annealed copper wire (Class 2) to BS EN 60228
Insulation:	An extruded layer of cross-linked Zero Halogen, Low Smoke (OHLS) compound

Physical Characteristics

Voltage rating (U₀/U):	450/750V Note: When installed in an earthed metal enclosure, cables are suitable for voltages up to 1000V a.c. or up to 750V to earth d.c.
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:	6 x overall diameter of cable
Current rating:	Refer to tables 4E1A & 4E1B in BS7671

Performance Characteristics

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

A range of insulation colours are available including green/yellow



A brand of the
Prysmian
Group



Draka

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Single core 6491B

Nominal area of conductor	Insulation thickness	Approx. overall diameter	Approx. weight of cable	Maximum conductor resistance @ 20°C
mm ²	mm	mm	kg/km	Ω/km
1.5	0.7	3.1	25	12.10
2.5	0.8	3.7	35	7.41
4	0.8	4.2	50	4.61
6	0.8	4.7	70	3.08
10	1.0	6.3	120	1.83
16	1.0	6.9	170	1.15
25	1.2	8.5	260	0.727
35	1.2	9.5	350	0.524
50	1.4	11.2	475	0.387
70	1.4	12.8	670	0.268
95	1.6	15.2	940	0.193
120	1.6	16.5	1160	0.153
150	1.8	18.4	1435	0.124
185	2.0	20.6	1800	0.0991
240	2.2	23.3	2350	0.0754
300	2.4	26.0	2960	0.0601
400	2.6	29.9	3930	0.0470
500	2.8	33.7	5030	0.0366
630	2.8	36.7	6160	0.0283



Draka6491BSAFFIRE04032015

Prysmian Group,
Chickenhall Lane,
Eastleigh,
SO50 6YU

Sales Telephone
01332 345431

www.drakauk.com

A brand of the
Prysmian
Group

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

Test Report No:

F4TTA130

National Standard:

BS EN 50525-3-41:2011

European Standard:

EN 50525-3-41:2011

Type Description:

Single core non-sheathed cables with Low smoke, Halogen free crosssslinked insulation

Details:

Materials:

Insulation EI 5, Sheath N/A

Brand Name:

Origin Mark:

DRAKA UK (B)

PERMISSIBLE MARKS



BASEC ◁ HAR ▷

BLACK - 1cm
RED - 1cm
YELLOW - 3cm
THREAD

Note: The black - red - yellow thread has been registered in this country as an identification thread in the BSI "Register of colours of manufacturers' threads for electric cables and cords" for Verband Deutscher Elektrotechniker (VDE) e.V., Frankfurt, Germany. VDE has authorized BASEC to use this thread.

Please refer to the BASEC Product Certification Requirements

Signed for and on behalf of
BASEC Group Ltd

Kieran O'Brien

Date: 06/06/2022

Date of original issue: 04/11/2013

Check BASEC website to verify validity.

Superseded Certification No: 189/001/043 Page 1 of 2

BASEC Group Ltd, Presley House, Presley Way, Milton Keynes, MK8 0ES, UK
Registered in England No. 13950143, Tel: +44 (0)1908 267300
Email: mail@basec.org.uk Web: www.basec.org.uk

BSF060 Issue 5 (20-03-2023)



Expiry date:
11/08/2026

Type(s) and Range(s) of Approval

Table	Code Designation	Conductor Class	Range of Cores	Min Nominal Size	Max Nominal Size
4.1	H07Z-R	Class 2	1	1.5	630

This certificate is issued according to the rules of the HAR agreement. The certification Scheme meets the criteria for type 5 Scheme laid down in the ISO/IEC 17067:2013 (Type Testing, Factory Inspection with assurance of conformity by continuous sample testing, production surveillance and market surveillance). The certificate issued by any Certification Body adhering to the HAR Agreement has the same worth and validity in all the other Certification Bodies' countries.

Compliance with the requirements of the above listed Harmonised Standards carries a presumption of conformity with the essential safety requirements of Directive 2014/35/EU (Low Voltage Directive).

Signed for and on behalf of
BASEC Group Ltd

Kieran O'Brien Date: 06/06/2022

Date of original issue: 04/11/2013

Check BASEC website to verify validity.

Superseded Certification No: 189/001/043 Page 2 of 2

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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

Test Report No:

D2RTA063

National Standard:

BS EN 50525-3-41:2011

European Standard:

EN 50525-3-41:2011

Type Description:

Single core non-sheathed cables with LSHF crosslinked insulation

Details:

Materials:

Insulation EI 5, Sheath N/A

Brand Name:

Origin Mark:

DRAKA UK (A)

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Table	Code Designation	Conductor Class	Range of Cores	Min Nominal Size	Max Nominal Size
4.1	H07Z-U	Class 1	1	1.5	10
4.1	H07Z-R	Class 2	1	1.5	25

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