



Draka

6491X

Draka 6491X - Single Core PVC Wiring Cable

Draka 6491X is a PVC insulated single core, low voltage copper wiring cable for installation within enclosed, protected environments. Particularly suitable for wiring systems the cable is easily drawn into conduit and trunking used for lighting and power circuits indoors or outdoors.



Construction

Manufacturing standard:	BS EN 50525-2-31
Harmonized code	H07V - U H07V - R
Conductors:	Solid or stranded plain annealed copper wire (class 1 or class 2) to BS EN 60228.
Insulation:	PVC.

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:	70 °C
Min, bending radius:	6 x overall diameter of cable.
Current rating:	Refer to tables 4D1A & 4D1B in BS7671

A range of insulation colours are available including green/yellow



A brand of the
Prysmian
Group



Draka

6491X

Single core 6491X

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	2.8	20	12.10
1.5	0.7	3	25	12.10
2.5*	0.8	3.4	30	7.41
2.5	0.8	3.7	35	7.41
4	0.8	4.2	50	4.61
6	0.8	4.8	70	3.08
10	1.0	6	115	1.83
16	1.0	6.8	165	1.15
25	1.2	8.4	260	0.727
35	1.2	9.4	345	0.524
50	1.4	11.2	475	0.387
70	1.4	12.7	665	0.268
95	1.6	14.7	920	0.193
120	1.6	16.1	1145	0.153
150	1.8	17.9	1415	0.124
185	2.0	20.2	1780	0.0991
240	2.2	22.9	2330	0.0754
300	2.4	25.6	2935	0.0601
400	2.6	31.0	3900	0.0470
500	2.8	34.9	4995	0.0366
630	2.8	39.3	6300	0.0283



Certificate of Product Approval

Licensee:

Draka Kabely s.r.o

Trebicka 777/99, Velke Mezirici, 594 01, Czech Republic

Factory:

Trebicka 777/99, Velke Mezirici, 594 01, Czech Republic

Standard:

BS EN 50525-2-31:2011

Description:

Single core non-sheathed cables with thermoplastic PVC insulation

Details:

N/A

Materials:

Insulation TI 1, Sheath NA

Brand Name:

N/A

Origin Mark:

DRAKA 07 or -DRAKA-

Permissible Approval Marks:

BASEC



BASEC name

BASEC roundel

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

Tony Lioveri

Date: 24/08/2021

Date of original issue: 03/04/2014

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:
03/09/2024



Certificate No:
134/001/045
Issue No: 3

Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
4.1	H07V-U	Class 1	1	1.5	10
4.1	H07V-R	Class 2	1	1.5	16

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

Tony Lioveri

Date: 24/08/2021

Date of original issue: 03/04/2014

Check BASEC website to verify validity.

Page 2 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:
03/09/2024

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 50525-2-31:2011

European Standard:

EN 50525-2-31:2011

Type Description:

Single core non-sheathed cables with thermoplastic PVC insulation

Details:

Colours: black, blue, brown, grey, orange, pink, red, turquoise, violet, white and combination green/yellow.

Materials:

Insulation TI 1, Sheath N/A

Brand Name:

Origin Mark:

DRAKA UK (A)

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: 06/07/2023

Date of original issue: 30/11/2012

Check BASEC website to verify validity.

Superseded Certification No: 189/002/025 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



Certificate No:
189/002/035

Issue No:
7

Type(s) and Range(s) of Approval

Table	Code Designation	Conductor Class	Range of Cores	Min Nominal Size	Max Nominal Size
4.1	H07V-U	Class 1	1	1.5	10
4.1	H07V-R	Class 2	1	1.5	25

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: 06/07/2023

Date of original issue: 30/11/2012

Check BASEC website to verify validity.

Superseded Certification No: 189/002/025 Page 2 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



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 50525-2-31:2011

European Standard:

EN 50525-2-31:2011

Type Description:

Single core non-sheathed cables with thermoplastic PVC insulation

Details:

Materials:

Insulation TI 1, 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: 13/12/2012

Check BASEC website to verify validity.

Superseded Certification No: 189/001/049 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



Certificate No:
189/001/064

Issue No:
6

Type(s) and Range(s) of Approval

Table	Code Designation	Conductor Class	Range of Cores	Min Nominal Size	Max Nominal Size
4.1	H07V-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: 13/12/2012

Check BASEC website to verify validity.

Superseded Certification No: 189/001/049 Page 2 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

DECLARATION OF PERFORMANCE (DoP)

No. 1001519

1. Unique identification code of the product-type:

H07V-R single core

2. Intended use:

Cable for general applications in construction works subject to reaction to fire requirements

3. Manufacturer

Draka Kabely, s.r.o.
Třebíčská 777/99
594 01 - Velké Meziříčí
Czech Republic

4. Authorized representative

-

5. System/s of AVCP

AVCP: 3

6. Harmonized standard:

EN 50575:2014+A1:2016

Notified body:

0366 VDE Testing and Certification Institute, Offenbach, Germany

7. Declared performances:

Reaction to Fire: E_{ca}

Dangerous substances: NPD

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by Josef Rimes, QHSE manager at Velké Meziříčí on 12/04/2017



WEB address of DOP finder: www.prysmiangroup.com/cpr

DECLARATION OF PERFORMANCE (DoP)

No. 1001521

1. Unique identification code of the product-type:

H07V-U single core

2. Intended use:

Cable for general applications in construction works subject to reaction to fire requirements

3. Manufacturer

Draka Kabely, s.r.o.
Třebíčská 777/99
594 01 - Velké Meziříčí
Czech Republic

4. Authorized representative

-

5. System/s of AVCP

AVCP: 3

6. Harmonized standard:

EN 50575:2014+A1:2016

Notified body:

0366 VDE Testing and Certification Institute, Offenbach, Germany

7. Declared performances:

Reaction to Fire: E_{ca}

Dangerous substances: NPD

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by Josef Rimes, QHSE manager at Velké Meziříčí on 12/04/2017



WEB address of DOP finder: www.prysmiangroup.com/cpr

ELEKTROTECHNICKÝ ZKUŠEBNÍ ÚSTAV



ELECTROTECHNICAL TESTING INSTITUTE - CZECH REPUBLIC
ELEKTROTECHNISCHE PRÜFANSTALT - TSCHECHISCHE REPUBLIK
INSTITUT ELECTROTECHNIQUE D'ESSAIS - RÉPUBLIQUE TCHÈQUE
ЭЛЕКТРОТЕХНИЧЕСКИЙ ИСПЫТАТЕЛЬНЫЙ ИНСТИТУТ - ЧЕШСКАЯ РЕСПУБЛИКА

Pod Lisem 129, 171 02 Praha 8 - Troja

LICENCE FOR HAR CONFORMITY MARK

No.: 6070004

Licensee: Draka Kabely, s. r. o.
Třebíčská 777/99, 594 01 Velké Meziříčí, Czech Republic

Manufacturer: Draka Kabely, s. r. o.
Třebíčská 777/99, 594 01 Velké Meziříčí, Czech Republic

Factory: Draka Kabely, s. r. o.
Třebíčská 777/99, 594 01 Velké Meziříčí, Czech Republic

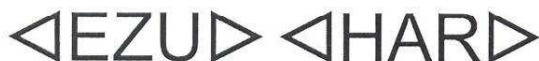
Name of Product: Polyvinylchloride insulated cables of rated voltage up to and including 450/750 V, Non-sheathed cables with stranded conductor for universal application

Type of product: H07V-R

Rating: 1,5 - 16 mm², 450/750 V

Trade Mark:

Electrotechnical Testing Institute is granting a licence for using the following mark



or identification thread (black – 1 cm, red – 3 cm, yellow – 11 cm).

One of these marks may be used for the product specified in this certificate within validity of the Agreement on the use of the HAR Mark by implementing all the rules stated in the Agreement.

The right to use the above mentioned mark for the product is based on:

- Test report No.: 701501-01/01 of: 31.08.2007

A sample of the product was tested and found to be in conformity with:
HD21.3 S3:1995+A1:1999 for use with HD 21.1 and EN 50395:2005, EN 50396:2005, EN 50363-0:2005, EN 50363-3:2005

- certified quality system according to 700864-01 of 7.3.2007 performed by EZÚ
- the General Agreement on the use of the HAR Mark No. 1808 and the agreement No. 701501-01 concluded between the ordering firm and the Electrotechnical Testing Institute

Certificate supersedes: -

This certificate/licence is issued according to the rules of the HAR Agreement, wherein the certificate/licence issued by any certification body adhering to HAR Agreement has the same worth and validity in all the other certification bodies' countries.

5.9.2007

Prague

Pavel Kudrna
Certification and Inspection Manager



701501-01



ELECTROTECHNICAL TESTING INSTITUTE - CZECH REPUBLIC
 ELEKTROTECHNISCHE PRÜFANSTALT - TSCHHECHISCHE REPUBLIK
 INSTITUT ELECTROTECHNIQUE D'ESSAIS - RÉPUBLIQUE TCHÉQUE
 ЭЛЕКТРОТЕХНИЧЕСКИЙ ИСПЫТАТЕЛЬНЫЙ ИНСТИТУТ - ЧЕШСКАЯ РЕСПУБЛИКА

Pod Lisem 129, 171 02 Praha 8 - Troja

LICENCE FOR HAR CONFORMITY MARK

No.: 6090006

Licensee: Draka Kabely, s. r. o.
 Třebíčská 777/99, 594 01 Velké Meziříčí, Czech Republic

Manufacturer: Draka Kabely, s. r. o.
 Třebíčská 777/99, 594 01 Velké Meziříčí, Czech Republic

Factory: Draka Kabely, s. r. o.
 Třebíčská 777/99, 594 01 Velké Meziříčí, Czech Republic

Name of Product: Single-core non-sheathed cable with rigid conductor for general purposes

Type of product: H07V-U

Rating: (1,5 - 16) mm²; 450/750 V

Trade Mark: DRAKA, DRAKA CZ, DRAKA 07

Electrotechnical Testing Institute is granting a licence for using the following mark



or identification thread (black – 1 cm, red – 3 cm, yellow – 11 cm), (code 22).

One of these marks may be used for the product specified in this certificate within validity of the Agreement on the use of the HAR Mark by implementing all the rules stated in the Agreement.

The right to use the above mentioned mark for the product is based on:

- Test report No.: 704673-06/01 of: 05.03.2009

A sample of the product was tested and found to be in conformity with:
 HD 21.3 S3:95, HD 21.3 S3:95/A1:99 in touch with HD 21.1 S4:02, EN 50395:05, EN 50396:05, EN 50363-0:05, EN 50363-3:05;
 National standards ČSN 34 7410-3:97+Z1:00, ČSN 34 7410-1:03, ČSN EN 50395:06, ČSN EN 50396:06, ČSN EN 50363-0:06,
 ČSN EN 50363-3:06

- certified quality system according to 803988-01 of 30.9.2008 performed by EZÚ
- the General Agreement on the use of the HAR Mark No. 1815/09 and the agreement No. 704673-06 concluded between the ordering firm and the Electrotechnical Testing Institute

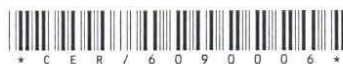
Certificate supersedes: 6030003

This certificate/licence is issued according to the rules of the HAR Agreement, wherein the certificate/licence issued by any certification body adhering to HAR Agreement has the same worth and validity in all the other certification bodies' countries.

23.3.2009

Prague

Miroslav Sedláček
 Certification and Inspection Manager



704673-06