LSOH Wiring Cables

Low Voltage (300/500 V)

Afumex®

6242B Afumex

LSOH Flat Wiring Cables with Bare CPC

Cable Approvals

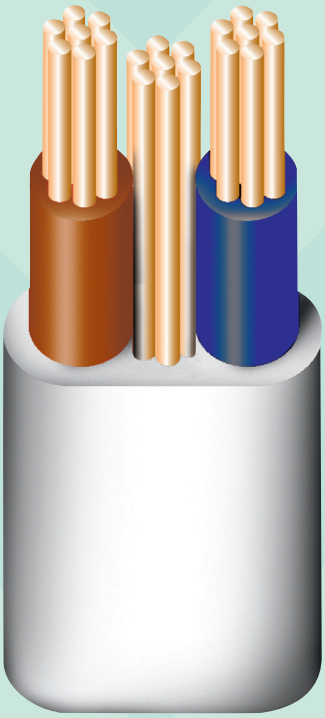
Cable approved to BS7211

Key Applications

> Suitable for fixed installation in dry or damp premises on walls, boards or trays, in channels or embedded in plaster particularly for situations in which low emission smoke and acid gas is required in case of burning

Conductor

> Plain annealed copper solid (1.0 - 2.5mm²) or stranded (4.0 - 16.0mm²) circular conductor complying with BS EN 60228 Class 1 or Class 2



Insulation

> LSOH 90°C cross-linked insulation

Core Identification

brown-CPC-blue

brown-black-CPC-grey

Sheath

> LSOH Sheath complying with BS7655 Type LTS2

> Colour - white

QUALITY Afumex ASSURED

Temperature Range	Bending Radius	Mechanical Impact	Fire Performance	Flexibility	Halogen Free	Low Smoke Emissions
-25 to +90°C	Fixed r=4D (minor axis)	Medium	BS EN 60332-1-2 BS EN 60332-3-24	Rigid	BSEN50267-2-1 BSEN50267-2-3	BSEN50268-2

Ref:6242B/09/15

Prysmian Cables & Systems Limited, Sales Office, Chickenhall Lane, Eastleigh, Hants, SO50 6YU, UK
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www.prysmian.co.uk

PRYSMIAN CABLES & SYSTEMS

LSOH Flat Wiring Cables with Bare CPC

Cable Details

Nominal cross sectional area phase/ CPC	Approx. overall diameter	Approximate cable weight	Maximum conductor resistance at 20°C	Short circuit rating of conductor (1 sec)	Current rating			Volt drop DC or single phase AC	Volt drop three phase AC
					DC or Single phase AC clipped direct	DC or Single phase AC enclosed in conduit or trunking	Three phase AC clipped direct		
mm²	mm	kg/km	Ohms/km	kA	Amps	Amps	Amps	mV/A/m	mV/A/m
6242B Two core + CPC									
1.0 / 1.0	4.5 x 8.2	70	18.1	0.14	19	17	-	46	-
1.5 / 1.0	4.7 x 8.6	82	12.1	0.22	24	22	-	31	-
2.5 / 1.5	5.3 x 9.9	115	7.41	0.36	33	30	-	19	-
4.0 / 1.5	6.1 x 11.4	155	4.61	0.57	45	40	-	12	-
6.0 / 2.5	6.8 x 13.1	216	3.8	0.85	58	51	-	7.9	-
10.0 / 4.0	8.4 x 16.8	380	1.83	1.43	80	69	-	4.7	-
16.0 / 6.0	9.6 x 19.5	560	1.15	2.28	107	91	-	2.9	-
6243B Three core + CPC									
1.0 / 1.0	4.5 x 10.7	94	18.1	0.14	19	17	17	46	40
1.5 / 1.0	4.7 x 11.4	112	12.1	0.22	24	22	22	31	27
2.5 / 1.5	5.3 x 12.8	152	7.41	0.36	33	30	30	19	16

Temperature rating factors

Ambient Temperature°C	25	30	35	40	45	50	55	60
Rating Factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71

Note: Where conductor operates at a temperature exceeding 70°C is shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature.

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Certificate No:
017/003/215

Issue No: 8

Certificate of Product Approval

Licensee:
Prysmian Cables & Systems Ltd

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

Factory:
Harriet Street

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

Standard:
BS 7211:2012

Description:
LSHF insulated and sheathed cables

Details:
N/A

Materials:
Insulation GP 8, Sheath LTS 2

Brand Name:
N/A

Origin Mark:
BRITCABLE (A) or PRYSMIAN (A)

Permissible Approval Marks:

BASEC name | BASEC roundel

Signed for and on behalf of BASEC Group Limited

Date: 07/08/2026

Date of original issue: 12/06/2002
Check BASEC website to verify validity.

BASEC Group Limited, 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

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
11/08/2029

BASEC
a kiwa company

Certificate No:
017/003/215

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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
5	6241B	Class 1	1	1	1.5
5	6242B	Class 1	2	1	2.5
5	6243B	Class 1	3	1	2.5
5	6242B	Class 2	2	1	16

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