



# Caledonian

## BS 7211 LSOH Sheathed Cables



[www.caledonian-cables.co.uk](http://www.caledonian-cables.co.uk)

[www.caledonian-cables.com](http://www.caledonian-cables.com)



**Addison**



# Company Profile

Caledonian, established in 1978, offers one of the most complete lines of fiber and copper cabling system solutions with over hundreds of different cabling system products. Our superior products provide leading edge within every cable series and for every application.

Among the national and international standards with which our cables could comply are: BS - British Standard; LPCB Fire Performance Standard. ISO Standard etc. Caledonian Cables offers a comprehensive stock of cables and cabling products through its nationwide network of resellers and distributors. Caledonian Cables has continually expanded its global presence in Europe and Asia.

Caledonian & Addison, produces a wide range of cables for communication, power and electronics in its primary plants in UK, Italy and Spain. To stay in front, we continually keep expanding our manufacturing capabilities in more low cost region such as Romania, Taiwan, Malaysia etc. This low-cost manufacturing facilities enable us provide a flexible, scalable global system that delivers superior operational performance and optimal results for our customers.

Our extensive global network of manufacturing facilities gives us significant scale and the flexibility to fulfill our customer requirements. This global presence provides design and consultancy solutions that are combined with core cable manufacturing, logistic services, and vertically integrated with our E-commerce technologies, to optimize customer operations by lowering costs and reducing time to market.

Caledonian & Addison has been respected for its high standards of quality, excellent service level, competitive pricing and a unique and innovative spirit. With our latest technologies, we are both inspired and well-positioned to meet the changing needs of our customers. We have the resources to diversify and to enhance our product lines and services. We understand the need for change and with our accurate planning, we are ready for the future and the promise of new marketing opportunities. Our tradition of growth through excellence is assured.

Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized, country and industry-specific solutions. Caledonian & Addison has established an extensive network of design, manufacturing, and logistics facilities in the world's major markets to serve the growing outsourcing needs of both multinational and regional customers.





# Our Certificate



## Registration Certificate

***This document certifies that the administration systems of***

***Caledonian Cables Limited / Addison Technology Limited  
Marchants Industrial Centre, Mill Lane, Laughton, Lewes, Sussex, BN8 6AJ, United Kingdom***

***have been assessed and approved by QAS International  
to the following management systems, standards and guidelines:***

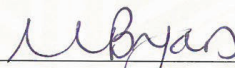
***ISO 9001 : 2008***

***With the permitted exclusion of clauses 7.3 Design and Development***

***The approved administration systems apply to the following:***

***The manufacture and supply of electrical cables and  
ancillary power equipment to customers internationally.***

Original Approval ..... ***6<sup>th</sup> September 1997***.....  
Current Certificate ..... ***7<sup>th</sup> February 2013***.....  
Certificate Expiry ..... ***7<sup>th</sup> February 2014***.....  
Certificate Number ..... ***A6211***.....



**On behalf of QAS International**

[www.qas-international.com](http://www.qas-international.com)

This certificate remains valid while the holder maintains their quality administration systems in accordance with the standards and guidelines stated above, which will be audited annually by QAS International.

The holder is entitled to display the above registration mark for the duration of this certificate.

This certificate must be returned to QAS International on reasonable request.

Issuing Office: QAS International, 20A Oxford Street, Malmesbury, Wiltshire, SN16 9AX



### Table of Contents

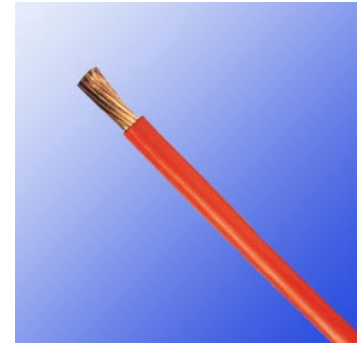
2491B/6701B Single Core Cable.....	5
6491B Conduit Wiring Cable.....	7
H05Z-U/H07Z-U.....	9
Thermosetting insulated, single-core, sheathed cables.....	11
Thermosetting insulated, twin, 3-core, 4-core and 5-core circular sheathed cables.....	13
6241B/6242B/ 6243B, LSOH Flat Wiring Cables with circuit protective conductor.....	17
Technical Reference.....	20



## 2491B/6701B Single Core Cable

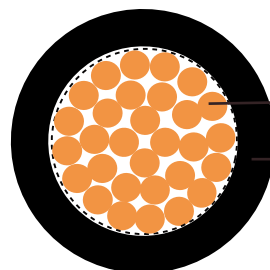
### Application and Description

2491B/6701B is equivalent to harmonized code H05Z-K/H07Z-K, these cables are designed for the internal wiring of switchboards and distributor boards with an alternating nominal voltage up to 1000 Volts or a direct voltage up to 750 volts. Generally install in pipes or ducts and internal wiring of appliances with maximum operating temperature of 90° C, and generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat to life and equipment. The cables produce no corrosive gasses when burnt which is particularly important where electronic equipment is installed.



### Cable Construction

- Fine bare copper strands
- Strands to IEC 60228 CI-5
- Thermosetting core insulation type EI5
- LSOH - low smoke, zero halogen



Bare copper conductor

LSOH thermosetting insulation

### Insulation Colour

Green/Yellow, Black, Blue, Brown, Red, White, Yellow, Grey, Violet, Grey, Orange, Pink

### Technical Characteristics

- Working voltage: 300/500v (2491B), 450/750v (6701B)
- Test voltage: 2000 / 2500 volts
- Minimum bending radius: 5 x Ø
- Flexing temperature: -15° C to +90° C
- Static temperature: -40° C to +90° C
- Insulation resistance: 10 MΩ x km



- Flame retardant: IEC 60332.1
- Smoke density acc. to EN 50268 / IEC 61034
- Corrosiveness of combustion gases acc. to EN 50267-2-2, IEC 60754-2
- Flame test: flame-retardant acc. to EN 50265-2-1, IEC 60332.1

### Cable Parameter

AWG	No. of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Overall Diameter	Nominal Copper Weight	Nominal Weight	Minimum insulation resistance at 90 °C
	# x mm <sup>2</sup>	mm	mm	kg/km	kg/km	MΩ·km
2491B						
20(16/32)	1 x 0.5	0.6	2.1-2.6	4.8	9	0.013
18(24/32)	1 x 0.75	0.6	2.2-2.8	7.2	12.4	0.011
17(32/32)	1 x 1	0.6	2.4-2.9	9.6	15	0.010
6701B						
16(30/30)	1 x 1.5	0.7	2.8-3.5	14.4	24	0.010
14(50/30)	1 x 2.5	0.8	3.4-4.3	24	35	0.009
12(56/28)	1 x 4	0.8	3.9-4.9	38	51	0.007
10(84/28)	1 x 6	0.8	4.4-5.5	58	71	0.006
8(80/26)	1 x 10	1.0	5.7-7.1	96	118	0.0056
6(128/26)	1 x 16	1.0	6.7-8.4	154	180	0.0046
4(200/26)	1 x 25	1.2	8.4-10.6	240	278	0.0044
2(280/26)	1 x 35	1.2	9.7-12.1	336	375	0.0038
1(400/26)	1 x 50	1.4	11.5-14.4	480	560	0.0037
2/0(356/24)	1 x 70	1.4	13.2-16.6	672	780	0.0032
3/0(485/24)	1 x 95	1.6	15.1-18.8	912	952	0.0032
4/0(614/24)	1 x 120	1.6	16.7-20.9	1152	1200	0.0029
300 MCM (765/24)	1 x 150	1.8	18.6-23.3	1440	1505	0.0029
350 MCM (944/24)	1 x 185	2.0	20.6-25.8	1776	1845	0.0029
500MCM(1225/24)	1 x 240	2.2	23.5-29.4	2304	2400	0.0028