

BS 8573
600/1000V
XLPE Insulation
LSZH Sheath Cables



Caledonian

www.caledonian-cables.co.uk

www.addison-cables.com



Caledonian

Company Profile

Caledonian & Addison, branded under Caledonia & Addimax, established in 1978, offers one of the most complete lines of fiber and copper cabling 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 & Addison offers a comprehensive stock of cables and cabling products through its nationwide network of resellers and distributors. Caledonian & Addison 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, Turkey, Malaysia, Italy and Spain. To stay in front, we continually keep expanding our manufacturing capabilities in more low cost region such as China, 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.

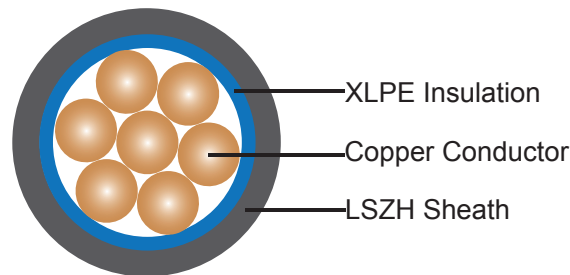
Our Design Centers work closely with customers to constantly improve its standard range of products and technologies and to develop customized, country and industry-specific solutions. Caledonian & Addison has established an extensive network of design, manufacturing, and logistics facilities in the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

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Single Core 600/1000V XLPE Insulation, LSZH Sheath Cables to BS 8573



APPLICATION

These XLPE insulated and LSZH sheathed cables are generally used for fixed installation. Suitable for building wiring, especially in areas where smoke and fume emissions may cause a potential threat to life but not for burial in the ground, either directly or in ducts.

STANDARD

Basic design to BS 8573:2012

FIRE PERFORMANCE

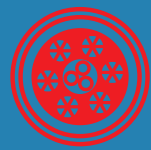
Flame Retardance (Single Vertical Wire Test)	BS EN 60332-1-2:2004
Reduced Fire Propagation (Vertically-mounted bundled wires & cable test)	BS EN 60332-3-24:2009 (cat. C)
Halogen Free	BS EN 50267-2-1
Minimum Smoke Emission	BS EN 61034-2
Spark Test	BS EN 62230

VOLTAGE RATING

600/1000V

CABLE CONSTRUCTION

Conductor: Annealed copper conductor, strand according to BS EN 60228 class 2.



Insulation: XLPE type GP8 according to BS 7655-1.3. HEPR type GP6 according to BS 7655-1.2, or crosslinked polyolefin material type EI 5 according to BS EN 50363-5 can be offered as option.

Inner Covering option: The laid up cores may be covered by an optional extruded inner covering or separating tape. It shall be possible to separate the cores easily.

Outer Sheath: Thermoplastic LSZH type LTS 4 according to BS 7655-6.1.

Outer Sheath option: UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option.

COLOUR CODE

Insulation Colour: Brown or blue

Sheath Colour: Black, other colours can be offered upon request.

PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (XLPE): 90°C

Maximum short circuit temperature (5 Seconds): 250°C

Minimum bending radius:

Circular copper conductors(up to 25mm²): 4 x Overall Diameter

Circular copper conductors(above 25mm²): 6 x Overall Diameter

Shaped copper conductors: 8 x Overall Diameter

CONSTRUCTION PARAMETERS

Conductor		Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Sheath Thickness
No. of Cores x Cross Section	Class of Conductor			
No. x mm ²		mm	mm	mm
1x1.5	2	0.7	0.4	1.4
1x2.5	2	0.7	0.4	1.4
1x4.0	2	0.7	0.4	1.4
1x6.0	2	0.7	0.4	1.4
1x10	2	0.7	0.4	1.4
1x16	2	0.7	0.4	1.4
1x25	2	0.9	0.4	1.4
1x35	2	0.9	0.4	1.4
1x50	2	1.0	0.6	1.4
1x70	2	1.1	0.6	1.4
1x95	2	1.1	0.6	1.5
1x120	2	1.2	0.8	1.5



Conductor		Nominal Insulation Thickness	Nominal Inner Covering Thickness	Nominal Sheath Thickness
No. of Cores x Cross Section	Class of Conductor			
No. x mm ²		mm	mm	mm
1x150	2	1.4	0.8	1.6
1x185	2	1.6	0.8	1.6
1x240	2	1.7	1.0	1.7
1x300	2	1.8	1.0	1.8
1x400	2	2.0	1.2	1.9
1x500	2	2.2	1.2	2.0
1x630	2	2.4	1.4	2.2
1x800	2	2.6	1.6	2.3
1x1000	2	2.8	1.6	2.4



Standard