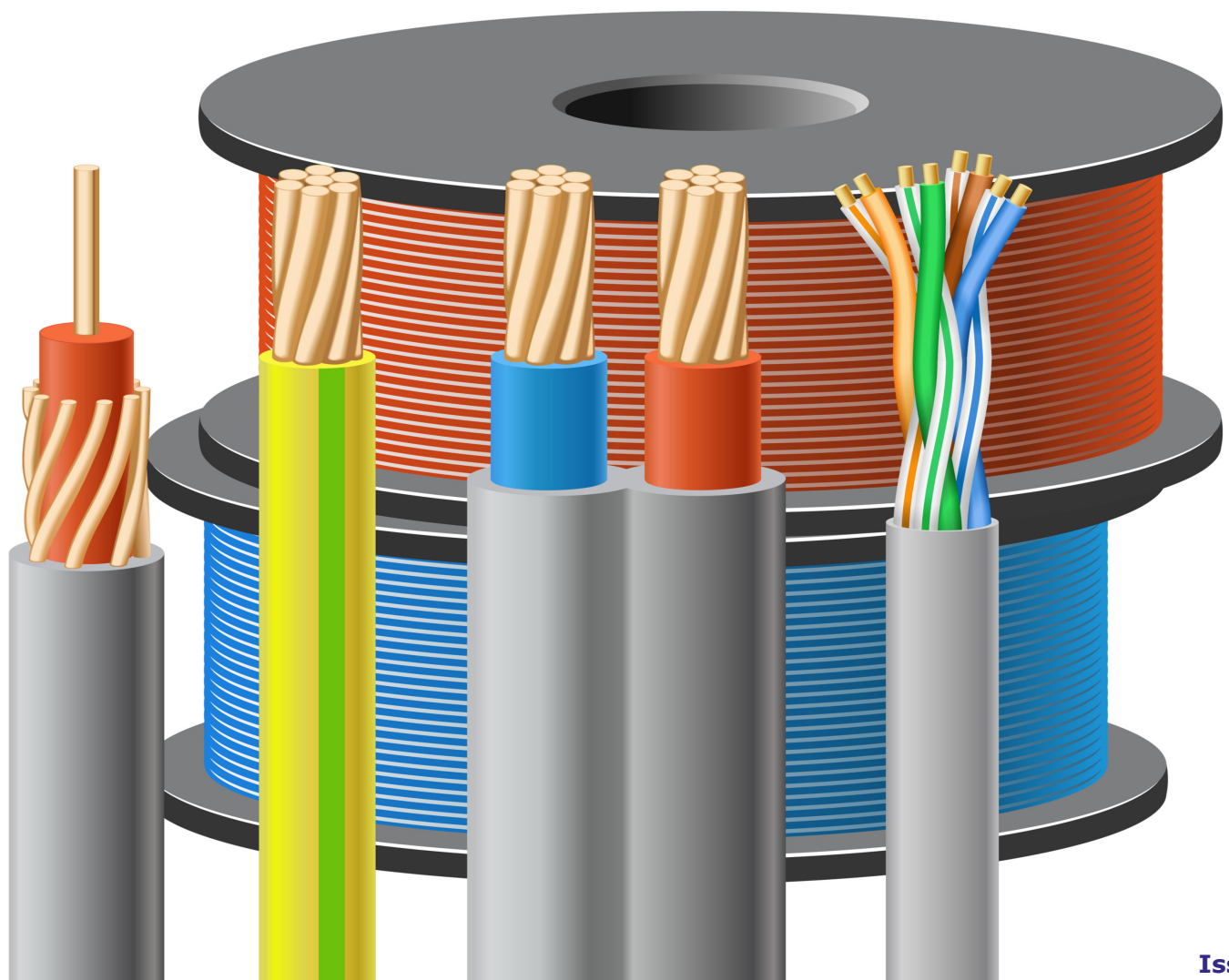# MACSEN LAMPS

Cable Catalogue

Phone: 0161 971 0172

Email: thebulbman@macsenlamps.co.uk

Website: www.macsenlamps.co.uk

Issue 1

ABOUT US
Macsen Lamps is a family run business, established in 1982. We supply the motor and marine trades with a comprehensive range of cables, bulbs and auto electrical consumables at very competitive prices. We pride ourselves on looking after our customers and going that extra mile. Many of our customers have been with us for over 20 years.

COMPANY HISTORY
Macsen Lamps was created in 1982 by John McCormick. With 10 years motor trade experience, he had frequently been asked to supply bulbs, and Macsen Lamps was born to satisfy that demand. John started by supplying bulbs only, to the motorcycle shops and garages in the North West of England, and is still supplying some of them today. His associate at the time, Bernard Senior, ran the same operation in the North East of England. This association gave rise to the unusual name, "Macsen". John amalgamated the two areas in 1983 when Bernard retired.

John soon realised there was a big demand for automotive cable and began to supply this to both the motor and marine trades.

John was very pleased that his daughter, Andrea, joined the company in 1994 and that his son Paul also joined in 2018.

OUR AIM

Macsen Lamps aim is to supply the most comprehensive range of quality cable, bulbs and auto electrical consumables throughout the whole of the UK at the most competitive prices.

0161 971 0172

thebulbman@macsenlamps.co.uk

www.macsenlamps.co.uk

TO PLACE AN ORDER:
Simply phone or email with your requirements and we will usually deliver your order to you within 2 working days. The minimum order from this catalogue is £25+VAT.

Standard reel sizes/quantities are displayed in this catalogue, and our cable colours and codes are listed below.

To order cable select the part number from the catalogue with the appropriate colour code at the end. For example: 1mm² single core thin wall cable in **BLACK** would be CTW012**BK** For **RED** it would be CTW012**RE**. The standard reel size for that cable is 100m which is shown in the catalogue. Other reel sizes are available in most cables, just ask for alternatives.

Cable Colour Codes

BK - Black	OR - Orange
BU - Blue	PK - Pink
BN - Brown	PU - Purple
GR - Green	RE - Red
GY - Grey	WH - White
LGR - Light Green	YE - Yellow

CATALOGUE CONTENTS

THIN WALL CABLE

In many ways Thin Wall Cable is the more modern and technically advanced version of the Standard PVC BS6862 cables. Thin wall cables are high temperature, low voltage for usage in the automotive, marine and other likewise industries.
- Weighs less. More commonly found in vehicles post 1995.
- Thinner to save space - approximately 30% less volume. Ideal for a harness.
- Higher amp rating for equivalent cross section.
- Harder grade PVC generally means a longer life span.
- Used by the leading OEMS.

- Individual conductors manufactured in compliance with BS EN60228:2005 and ISO 6722-1:2011 (Class B)
- Working temperature range -40°C to +105°C (Single core)
- Maximum voltage 60v - Suitable for 12v and 24v systems
- Hard grade PVC insulation gives excellent resistance to abrasion, moisture, petrol/diesel, oil and diluted acids
- Plain copper stranded conductors - PVC sheathed
- Available in a range of plain and striped outer PVC sheathed colours
- The conductor specifications shown may differ slightly, but will meet resistance values shown

SINGLE CORE THIN WALL CABLE

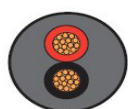| Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CTW010	0.5	16/0.20	1.6	11.0	100m
CTW011Z	0.75	24/0.20	1.9	14.0	100m
CTW012	1.0	32/0.20	2.1	16.5	100m
CTW013	1.5	21/0.30	2.4	21.0	100m
CTW014	2.0	28/0.30	2.7	25.0	100m
CTW014Z	2.5	35/0.30	3.0	29.0	100m
CTW015	3.0	44/0.30	3.2	33.0	100m
CTW016	4.0	56/0.30	3.7	39.0	100m
CTW017	4.5	65/0.30	4.0	42.0	100m
CTW018	6.0	84/0.30	4.3	50.0	100m
CTW020	8.5	120/0.30	5.4	63.0	100m
CTW020Z	10	80/0.40	6.0	70.0	100m
CSW16TW	16	126/0.40	7.9	110.0	10m
CSW25TW	25	196/0.40	9.4	170.0	10m

TWO CORE (FLAT TWIN) THIN WALL CABLE

Part no.	Conductor (mm²)	Stranding	Maximum Overall Dimensions (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CTW02/06	2 x 0.5	2 x 16/0.20	5.5 x 3.5	11.0	100m
CTW02/04	2 x 0.75	2 x 24/0.20	5.5 x 3.5	14.0	100m
CTW02/01	2 x 1.0	2 x 32/0.20	5.5 x 3.5	16.5	100m
CTW02/05	2 x 1.5	2 x 21/0.30	6.1 x 3.8	21.0	100m
CTW02/02	2 x 2.0	2 x 28/0.30	6.6 x 3.8	25.0	100m
CTW02/07	2 x 2.5	2 x 35/0.30	7.5 x 4.5	29.0	100m
CTW02/08	2 x 3.0	2 x 44/0.30	7.5 x 4.5	33.0	100m
CTW02/09	2 x 4.5	2 x 65/0.30	9.5 x 5.7	42.0	100m

- Outer PVC Sheath Colour: Black
- Inner Core PVC Insulation Colours: Red, Black

TWO CORE (ROUND) THIN WALL CABLE

Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CTWR02/06	2 x 0.5	2 x 16/0.20	5.0	11.0	100m
CTWR02/04	2 x 0.75	2 x 24/0.20	5.5	14.0	100m
CTWR02/01	2 x 1.0	2 x 32/0.20	5.7	16.5	100m
CTWR02/05	2 x 1.5	2 x 21/0.30	6.5	21.0	100m
CTWR02/02	2 x 2.0	2 x 28/0.30	6.7	25.0	100m
CTWR02/07	2 x 2.5	2 x 35/0.30	8.3	29.0	100m

- Outer PVC Sheath Colour: Black
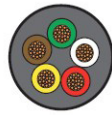- Inner Core PVC Insulation Colours: Red, Black

MULTICORE THIN WALL CABLE

Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CTW03/01	3 x 1.0	3 x 32/0.20	5.6	16.5	30m
CTW04/02	4 x 0.75	4 x 24/0.20	6.2	14.0	30m
CTW04/01	4 x 1.0	4 x 32/0.20	6.2	16.5	30m
CTW05/02	5 x 0.75	5 x 24/0.20	6.4	14.0	30m
CTW05/01	5 x 1.0	5 x 32/0.20	6.4	16.5	30m
CTW07/03	7 x 0.5	7 x 16/0.20	7.0	11.0	30m
CTW07/01	7 x 0.75	7 x 24/0.20	7.0	14.0	30m
CTW07/02	6 x 1.0 & 1 x 2.0	6 x 32/0.20 & 1 x 28/0.30	7.9	16.5 25.0	30m
CTW13/02	8 x 1.5 & 5 x 2.5	8 x 21/0.30 & 5 x 35/0.	12.4	21.0 29.0	30m

- Outer PVC Sheath Colour: Black
- Inner Core PVC Insulation Colours:
- 3 core: Black, Green, Red
- 4 core: Brown, Green, Red, White
- 5 core: Brown, Green, Red, White, Yellow
- 7 core; Black, Red, Green, Yellow, Brown, Blue, White
- 13 core: Red, Pink, Brown, Blue, Green, Black, Yellow, White/Blue, Orange, Grey, White/Red, White/Black, White.

Please enquire for cables or lengths not listed.

TRI RATED CABLE

Part no.	Conductor (mm²)	Approx AWG	Maximum diameter of cable (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CTR6	6.0	10	4.7	55	100m
CTR10	10.0	8	6.5	75	100m
CTR16	16.0	6	8.0	100	50m
CTR25	25.0	4	9.4	136	50m
CTR35	35.0	2	10.6	167	50m
CTR50	50.0	1	12.9	190	30m
CTR70	70.0	2/0	14.6	240	30m
CTR95	95.0	3/0	16.1	300	30m
CTR120	120.0	4/0	17.9	340	30m

Tri Rated single core cable is so named because it complies with three different national standards (American UL, Canadian CSA, & British BS) for heat resisting, PVC insulated, flexible cables, thus eliminating the need for dual stocking. It has a high temperature rating and is flame retardant, and is used extensively for the wiring of switch, control, metering, relay and instrument panels of power switchgear, as well as for internal connections in rectifier equipment, motor starters and controllers.

Specification	Temperature Rating	Voltage Rating
UL Subj.758	105°C	600v
CSA c22.2 No.127	105°C	600v
BS 6231 Type CK	105°C	600/1000v

- Individual Class 5 flexible copper conductors manufactured in compliance with BS EN60228:2005
- Heat resisting PVC insulation also resistant to petrol/diesel, oil and diluted acids
- Available in a range of plain PVC sheathed colours

Please enquire for cables or lengths not listed.

STANDARD PVC AUTO CABLE

Standard PVC Auto Cable is a general purpose, low voltage cable, made up of flexible conductors of stranded copper wire which are PVC insulated. It is suitable for a variety of automotive and marine applications in working temperatures up to 70C. Multi-core versions are commonly used in most British and European towing and trailer applications. Cable descriptions state the number and size of cable strands rather than the total cross sectional area of the conductor. Typical uses might include: side/tail lamps, indicators, fog lamps, car alarms & stereos (**14/0.30**), head lamps, wipers, cigar lighters, screen heaters, fuel pumps (**21/0.30** and **28/0.30**), charging circuits, battery feeds (**35/0.30** and **44/0.30**), heavy duty charging circuits and alternator feeds (**65/0.30** to **120/0.30**).

- Individual conductors manufactured in compliance with BS EN60228:2005 and ISO 6722-1: 2011 (Class B)
- Cables manufactured in accordance with BS 6862 Part 1:1971 where applicable
- Working temperature range -15°C to +70°C
- Maximum voltage 60v - Suitable for most 12v and 24v systems
- PVC insulation resistant to petrol/diesel, oil and diluted acids
- Plain copper stranded conductors - PVC sheathed
- Available in a range of plain and striped outer PVC sheathed colours
- The conductor specifications shown may differ slightly but will meet resistance values shown

SINGLE CORE PVC AUTO CABLE
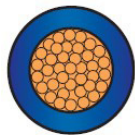
Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
EC1598	0.65	9/0.30	2.5	5.75	50m
EC1600	1.0	14/0.30	2.7	8.75	50m
EC1601	1.5	21/0.30	3.1	12.75	50m
EC1603	2.0	28/0.30	3.4	17.50	50m
EC1605	3.0	44/0.30	4.2	27.50	50m
EC1606	4.5	65/0.30	5.1	35.00	30m
EC1606V	6.0	84/0.30	5.9	42.00	30m
EC1606Z	7.0	97/0.30	6.2	50.00	30m
EC1607	8.5	120/0.30	7.0	60.00	30m
EC1608	10.0	80/0.40	7.5	70.00	30m

TWO CORE (FLAT TWIN) PVC AUTO CABLE

Part no.	Conductor (mm²)	Stranding	Maximum Overall Dimensions (mm)	Nominal Current Rating (Amps)	Standard Reel Size
EC1649	2 x 0.65	2 x 9/0.30	6.1 x 3.8	5.75	30m
EC1650	2 x 1.0	2 x 14/0.30	6.5 x 4.0	8.75	30m
EC1650/100	2 x 1.0	2 x 14/0.30	6.5 x 4.0	8.75	100m
EC1651	2 x 1.5	2 x 21/0.30	7.3 x 4.5	12.75	30m
EC1652	2 x 2.0	2 x 28/0.30	7.9 x 4.8	17.50	30m
EC 1652/100	2 x 2.0	2 x 28/0.30	7.9 x 4.8	17.50	100m
EC1653	2 x 2.5	2 x 35/0.30	9.1 x 5.6	21.75	30m
EC1654	2 x 3.0	2 x 44/0.30	9.5 x 5.8	27.50	30m
EC1655	2 x 4.5	2 x 65/0.3	11.5 x 7.3	35.00	30m

- Outer PVC Sheath Colour: Black. (Some alternatives available)
- Inner Core PVC Insulation Colours: Red, Black (some alternatives available)

Please enquire for cables or lengths not listed.

MULTICORE PVC AUTO CABLE
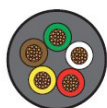
Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
EC1650R	2 x 1.0	2 x 14/0.30	7.1	8.75	30m
EC947	3 x 0.65	3 x 9/0.30	7.0	5.75	30m
EC948	3 x 1.0	3 x 14/0.30	7.5	8.75	30m
EC949	3 x 2.0	3 x 28/0.30	8.7	17.5	30m
EC959	4 x 0.65	4 x 9/0.30	7.9	5.75	30m
EC960	4 x 1.0	4 x 14/0.30	8.9	8.75	30m
EC951	5 x 0.65	5 x 9/0.30	9.0	5.75	30m
EC998	5 x 1.0	5 x 14/0.30	10.0	8.75	30m
EC952	7 x 0.65	7 x 9/0.30	9.0	5.75	30m
EC952/100	7 x 0.65	7 x 9/0.30	9.0	5.75	100m
EC999	6 x 1.0 & 1 x 2.0	6 x14/0.30 & 1 x 28/0.30	10.6	8.75 17.5	30m
EC955	7 x 1.0 & 1 x 2.0	7 x 14/0.30 & 1 x 28/0.30	10.8	8.75 17.5	30m
EC1000	6 x 1.5 & 1 x 2.5	6 x 21/0.30 & 1 x 35/0.30	11.8 (Grey)	12.75 21.75	30m

- Outer PVC sheath colour: Black (EC1000: Grey)
- Inner core PVC insulation colours:
- 3 core: Black, Green, Red
- 4 core: Brown, Green, Red, White
- 5 core: Brown, Green, Red, White, Yellow
- 7 core; Black, Red, Green, Yellow, Brown, Blue, White
- 8 core: Black, Red, Green, Yellow, Brown, Purple, Blue, White

Please enquire for cables or lengths not listed.

PVC HIGH TENSION IGNITION CABLE

Part no.	Conductor (mm²)	Stranding	Maximum overall diameter (mm)	Standard Reel Size
EC75BK	1.15	16/0.30	7.0	30m

Black PVC double insulated high tension ignition cable, which is ideal for the manufacture of high voltage auto distribution leads. This cable is made up of plain copper conductors, double sheathed with PVC to BS6862, and has a working temperature range of -15°C to +70°C.

TWIN SPEAKER CABLE

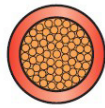| Part no.	Stranding	Maximum Overall Dimensions (mm)	Nominal Current Rating (Amps)	Standard Reel Size
EC550	2 x 12/0.20	3.65 x 1.7	2	100m
EC552	2 x 24/0.20	4.93 x 2.3	6	100m

A range of flexible, two core, figure of 8 standard speaker cables, with polarity line indicator along one core to indicate the positive tracer, ideal for auto/home loudspeaker connection.
EC550: Black - Black/White
EC552: Black - Black/Red

Please enquire for cables or lengths not listed.
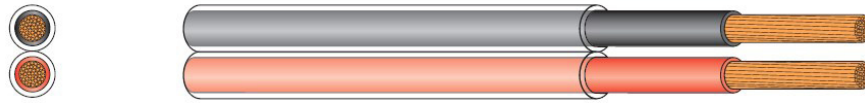
EXTRA FLEXIBLE PVC BATTERY / WELDING CABLE

Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CSW16	16	206/0.30	8.7	110	50m
CSW25	25	322/0.30	10.5	170	50m
CSW25-10	25	322/0.30	10.5	170	10m
CSW35	35	451/0.30	12.0	240	50m
CSW35-10	35	451/0.30	12.0	240	10m
CSW40	40	539/0.30	12.6	300	50m
CSW40-10	40	539/0.30	12.6	300	10m
CSW50	50	640/0.30	13.8	345	10m
CSW60	60	805/0.30	14.8	415	10m
CSW70	70	905/0.30	15.9	485	30m
CSW95	95	1285/0.30	18.2	500	10m
CSW120	120	1695/0.30	20.1	600	10m
The 150 and 185mm cables below are double insulated rubber cables.					
CSW150	150		22.0		10m
CSW185	185				10m

A range of hi flex, extra flexible battery cables, using fine stranded copper conductors with a PVC outer sheath to achieve a product which is ideal for battery or welding cable use.

- Resistant to abrasion, moisture, petrol/diesel, oil and diluted acids
- Working temperature range is -15°C to +70°C
- Outer PVC Sheath Colours: Black, Red
- Manufactured in accordance with the harmonised specification of BS6500
- Individual conductors manufactured in compliance with BS EN60228:2005

Please enquire for cables or lengths not listed.

TWIN HI FLEX BATTERY CABLE

Part no.	Conductor (mm²)	Stranding	Maximum overall dimensions (mm)	Nominal Current Rating (Amps)	Standard Reel Size
CSW16/2	2 x 16	494/0.20	15.2 x 6.7	106	10m
CSW25/2	2 x 25	779/0.20	18.0 x 8.1	140	10m
CSW35/2	2 x 35	1083/0.20	20.0 x 9.1	171	10m
CSW50/2	2 x 50	1554/0.20	30.6 x 14.6	215	10m

A range of figure 8 configuration, twin hi flex battery cables, which use extra flexible plain copper conductors, insulated by a red and black thermoplastic elastomer, and then sheathed in a transparent PVC sheath, which can be divided to seperate the two cores for connection. The working temperature range is -25°C to +70°C, and the cable is particularly resistant to abrasion, moisture, petrol/diesel, oil and diluted acids, making it ideal for a wide variety of flexible indoor and outdoor uses.

RUBBER INSULATED MAINS CABLE

Part no.	Conductor (mm²)	Stranding	Nominal Current Rating (Amps)	Standard Reel Size
EC3183-6amp	3 x 0.75	3 x 24/0.20	6	30m

Rubber flex is robust and extremely flexible and is designed primarily as a heavy duty trailing cable for portable or mobile equipment.

- Class 5 flexible copper conductors to BS EN 60228:2005
- Sheath: PCP Polychloroprene to BS7655 - oil and flame retardant
- Insulation: EPR Rubber to BS7655
- Temperature rating -30°C to +85°C
- Voltage rating 450 to 750v
- Manufactured to BS7919
- Outer sheath colour: Black
- Inner core colours: Blue, Brown and Green/Yellow

318-Y FLEXIBLE PVC MAINS CABLE

Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
EC3182Y-1.0	2 x 1.0	2 x 32/0.20	6.4	10	30m
EC3182Y-1.5	2 x 1.5	2 x 30/0.25	7.4	16	30m
EC3183Y-0.75	3 x 0.75	3 x 24/0.20	6.6	6	30m
EC3183Y-1.0	3 x 1.0	3 x 32/0.20	6.8	10	30m
EC3183Y-1.5	3 x 1.5	3 x 30/0.25	8.1	16	30m
EC3183Y-2.5	3 x 2.5	3 x 50/0.25	10.0	20	30m

A versatile flex, commonly used for the wiring of portable and semi-fixed domestic appliances, and extension leads.

- Class 5 flexible copper conductors to BS EN 60228:2005
- Round PVC insulation & sheath to BS7655
- Temperature rating 0°C to +60°C
- Voltage rating 300/500v
- Manufactured to BS6500/1984 Table 16
- Outer PVC Sheath Colours: Black, White, Orange
- Inner Core Colours:
- 2 core: Blue, Brown.
- 3 core Blue, Brown, Green/Yellow

Please enquire for cables or lengths not listed.

Part no.	Conductor (mm²)	Stranding	Maximum Overall Diameter (mm)	Nominal Current Rating (Amps)	Standard Reel Size
EC3183Y1.5AG	3 x 1.5	3 x 30/0.25	8.1	16	100m
EC3183Y2.5AG	3 x 2.5	3 x 50/0.25	10.0	20	100m
EC3183Y4.0AG	3 x 4.0	3 x 56/0.30	11.3	25	100m

Arctic Grade PVC is designed to withstand severe external temperatures, remaining flexible at temperatures as low as -20°C.

- Class 5 flexible copper conductors to BS EN 60228:2005
- Insulation & sheath: round arctic grade PVC
- Temperature rating -40°C to +70°C
- Voltage rating 300/500v
- Manufactured to BS6500/1984 Table 16
- Outer PVC Sheath Colours: Blue, Yellow
- Inner Core Colours: Blue, Brown, Green/Yellow

Please enquire for cables or lengths not listed.

CABLE TIES

BLACK

ECT1	100 x 2.5mm (4" x 1/8")	200
ECT2	200 x 4.8mm (8" x 3/16")	100
ECT3	300 x 4.8mm (12" x 3/16")	100
ECT7	370 x 4.8mm (15" x 3/16")	100
ECT4	370 x 7.6mm (15" x 5/16")	100
ECT8	580 x 12.7mm (23" x 1/2")	50

SILVER

ECT7SV	370 x 4.8mm (15" x 3/16")	100

WHITE

ECT7WH	370 x 4.8mm (15" x 3/16")	100

CABLE TIE BASES

EAC4	Black, self adhesive ties up to 5mm.	100
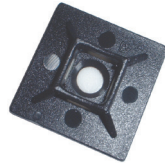
PVC INSULATION TAPE

Flame retardant, 19mm x 20m.

EPT1	Black	10
EPT1RE	Red	10

PVC HARNESS TAPE

Flame retardant, non-adhesive. 19mm x 40m.

EPT10	Black	10

SELF AMALGAMATING TAPE

Water and UV resistant, ideal for permanently waterproofing electrical cables and cable joints. 19mm x 10m.

EPT12	Black	10

ADHESIVE LINED HEATSHRINK SLEEVING

SHRINK RATIO 3-1, BLACK, i.d.

EHA1	3mm	1.22m
EHA3	6mm	1.22m
EHA4	9mm	1.22m
EHA5	12mm	1.22m
EHA6	19mm	1.22m

HEATSHRINK SLEEVING

SHRINK RATIO 2-1, BLACK or RED, i.d.

EHS272	2.4mm	5m
EHS273	3.2mm	5m
EHS274	4.8mm	5m
EHS275	6.4mm	5m
EHS276	9.5mm	5m
EHS277	12.7mm	5m
EHS278	19.1mm	5m
EHS279	25.4mm	5m
EHS280	38.0mm	5m
EHS281	51.0mm	5m

PVC SLEEVING

BLACK, i.d.

EPS252	6mm	100m
EPS253	8mm	100m
EPS255	10mm	100m
EPS256	12mm	100m

SPLIT CONVOLUTED SLEEVING

BLACK, i.d.

ESV40	6.9mm	25m
ESV41	10.1mm	25m
ESV42	11.8mm	25m
ESV43	14.5mm	25m
ESV44	16.9mm	25m
ESV45	20.1mm	25m
ESV46	23.5mm	25m

HEAT GUN

An 1800w, 230v electric heat gun with deflector shield, which is ideal for moulding heat shrink. Two heat settings at 450°C and 600°C allow flexible control of the heating rate.

V555   Heat Gun   1

MICRO GAS TORCH

This handy piezo spark, refillable micro gas torch, with adjustable flame, is ideal for a range of heating applications, with a flame temperature of up to 1500°C.

V556   Micro Gas Torch   1

CABLE CUTTING TOOLS

A range of cable cutters for standard everyday use. Cuts cable up to 80mm².

V552   V553

V552   Cable Cutters (up to 38mm²)   1
V553   Cable Cutters (up to 80mm²)   1

CABLE STRIPPING TOOLS

A range of cable strippers for removing the PVC outer sheath from cables up to 6mm² in cross section. Jaws hold the cable securely whilst the outer sheath is cut and removed in one operation.

V549   V550

V549   Cable Stripper & Cutter   1
V550   Cable Strippers   1

LIGHT DUTY CRIMPING TOOL

Light duty crimping tool for red, blue and yellow pre-insulated terminals. Also crimps non-insulated terminals from 0.75mm² to 6mm², strips cable 0.75mm² to 6mm², and has an integral wire cutter.

V534   Crimping Tool   1

RACHET CRIMPING TOOL

Heavy duty ratchet crimping tool for red, blue and yellow pre-insulated terminals. The tool has an adjustable tensioner and ergonomically designed handles to reduce operator fatigue.

V535   Crimping Tool   1

UNINSULATED CRIMPING TOOL

Rachet crimping tool for uninsulated terminals 0.5mm² to 6mm². The tool has an adjustable tensioner and ergonomically designed handles to reduce operator fatigue.

V536   Crimping Tool   1

SPLICE CONNECTORS

ESL1	RED	50
ESL2	BLUE	100
ESL2-3M	BLUE 3M	100

CONNECTORS

ET1	SINGLE SLEEVE	100
ET2	DOUBLE SLEEVE	50
ET39	SOLDERLESS BRASS BULLET	100

NON-INSULATED TERMINALS

ET40	6.3mm FEMALE	100
ET41	COVER FOR ET40	100

HEAT SHRINK TERMINALS

ET165	RED BUTT	25
ET166	BLUE BUTT	25
ET167	YELLOW BUTT	10

TERMINAL BLOCK CONNECTORS

12-WAY STRIPS, NEUTRAL

ETB3	3 amp	10
ETB5	5 amp	10
ETB15	15 amp	10
ETB30	30 amp	10

RED INSULATED TERMINALS

ET3*	3.2mm FEMALE	100
ET4*	5mm FEMALE	100
ET45*	5mm F/I FEMALE	100
ET6*	6.6mm FEMALE	100
ET9*	6.6mm F/I FEMALE	100
ET13*	6.6mm PIGGY-BACK	100
ET15*	4mm BULLET	100
ET18*	4mm SOCKET	100
ET124	3.2mm RING (6BA)	100
ET20	4.3mm RING (4BA)	100
ET22	5.3mm RING (2BA)	100
ET25	6.4mm RING (1/4")	100
ET28	8.4mm RING (5/16")	100
ET33	4mm BUTT	100
ET36*	6.3mm MALE	100
ET116	4.3mm FORK (4BA)	100
ET120	5.3mm FORK (2BA)	100
ET145	1.9mm PIN	100
ET47	2.3mm BLADE	100

F/I	FULLY INSULATED
*	WITH ANTI-VIBRATION INSERT

BLUE INSULATED TERMINALS

ET5*	5mm FEMALE	100
ET46*	5mm F/I FEMALE	100
ET7*	6.6mm FEMALE	100
ET10*	6.6mm F/I FEMALE	100
ET14*	6.6mm PIGGY-BACK	100
ET16*	5mm BULLET	100
ET19*	5mm SOCKET	100
ET125	3.2mm RING (6BA)	100
ET21	4.3mm RING (4BA)	100
ET23	5.3mm RING (2BA)	100
ET26	6.4mm RING (1/4")	100
ET29	8.4mm RING (5/16")	100
ET31	10.5mm RING (3/8")	100
ET34	4.5mm BUTT	100
ET37*	6.3mm MALE	100
ET117	4.3mm FORK (4BA)	100
ET121	5.3mm FORK (2BA)	100
ET123	6.4mm FORK (1/4")	100
ET146	1.9mm PIN	100
ET48	2.3mm BLADE	100

YELLOW INSULATED TERMINALS

ET8*	6.6mm FEMALE	50
ET11*	6.6mm F/I FEMALE	50
ET12*	10mm FEMALE	50
ET12F*	10mm F/I FEMALE	50
ET44*	6.6mm PIGGY-BACK	50
ET129	4.3mm RING (4BA)	50
ET24	5.3mm RING (2BA)	50
ET27	6.4mm RING (1/4")	50
ET30	8.4mm RING (5/16")	50
ET32	10.5mm RING (3/8")	50
ET43	12mm RING (1/2")	50
ET35	6.8mm BUTT	50
ET38*	6.3mm MALE	50
ET119	4.3mm FORK (4BA)	50
ET147	2.9mm PIN	50

F/I   FULLY INSULATED
*   WITH ANTI-VIBRATION INSERT

COPPER TUBE TERMINALS

Heavy duty with extra long barrels and an inspection hole. Suitable for crimping or soldering.

Material: Tinned Copper.

The first number is the mm² of the cable. The second number is the hole size.

BT19	10-6mm	20
BT20	10-8mm	20
BT21	10-10mm	20
BT22	16-6mm	20
BT23	16-8mm	20
BT7	16-10mm	20
BT12	25-6mm	20
BT8	25-8mm	20
BT13	25-10mm	20
BT15	35-6mm	20
BT24	35-8mm	20
BT16	35-10mm	20
BT9	50-8mm	20
BT14	50-10mm	20
BT27	70-8mm	10
BT10	70-10mm	10
BT11	70-12mm	10
BT26	95-8mm	10
BT25	95-10mm	10
BT29	95-12mm	10

Please enquire for sizes not listed.

COPPER BUTT SPLICE TERMINALS

Complete with inspection hole. Suitable for joining cables by crimping or soldering.

Material: Tinned Copper.

CTB6	6mm²	10
CTB10	10mm²	10
CTB16	16mm²	10
CTB25	25mm²	10
CTB35	35mm²	10
CTB50	50mm²	10
CTB70	70mm²	10

COPPER TUBE CRIMPING TOOL

A 39cm (15") heavy duty double action crimping tool for hex crimping copper tube terminals. Suits cable from 6mm² to 50mm².

V554   Crimping Tool   1

BATTERY TERMINALS

SCREW FIXING, TIN PLATED BRASS

12v, suitable for cables up to 40mm².
Cable entry hole size 9.5mm.

| BT1HD | Positive | 10 |
| BT2HD | Negative | 10 |

24v, suitable for cables up to 60mm².
Cable entry hole size 11.5mm.

| BT3HD | Positive | 10 |
| BT4HD | Negative | 10 |

24v, suitable for cable up to 95mm².
Cable entry hole size 15.5mm

| BT5HD | Positive | 10 |
| BT6HD | Negative | 10 |

STUD & NUT FIXING, TIN PLATED BRASS

10mm stud x 14mm length

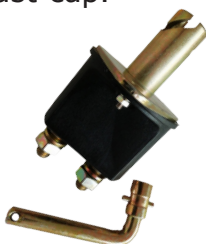| BT17 | Positive | 10 |
| BT18 | Negative | 10 |

BATTERY ISOLATOR SWITCHES

MAXIMUM VOLTAGE 24v. STUD SIZE 10mm.

100amp (max. 500amps for 5 seconds).
Supplied with 2 keys and a weather seal.

TS594	100amp	1
TS594K	Spare Key	1

250amp (max. 2500amps for 3 seconds).
Supplied with metal key and dust cap.

TS341	250amp	1
TS341K	Spare Key	1

STARTER LEADS

16mm² cable, 8mm ring to 8mm ring.
BLACK

B600	150mm(6")	1
B602	225mm(9")	1
B604	300mm(12")	1
B606	375mm(15")	1
B608	450mm(18")	1
B610	600mm(24")	1

RED

B601	150mm(6")	1
B603	225mm(9")	1
B605	300mm(12")	1
B607	375mm(15")	1
B609	450mm(18")	1
B611	600mm(24")	1

Other starter leads may be available, please ask for details.

POWER JOINTING BOX

Suitable for joining cables that are fitted with ring terminals. A lid covers the connections and a fixing hole for securing. Stud size 8mm. H35xW61xD40mm.

PJ1	2 Way 120amp	1

EARTHING LEADS

19mm² copper braid, 8mm ring to 8mm ring.

B641	225mm(9")	1
B642	300mm(12")	1
B643	375mm(15")	1
B644	450mm(18")	1
B645	600mm(24")	1

Other braided earthing leads may be available, please ask for details.

CROCODILE CLIPS

ECC5	5amp	10
ECC25	25amp	10
ECC50	50amp	10

JUMP LEADS

A range of high quality jump leads made using flexible, PVC coated, multi strand copper cable fitted with insulated, heavy duty, strongly sprung, passivated steel crocodile clips. As an approximate guide jump leads are suitable for use on petrol engines as follows:

16mm² up to 2.5 litres (diesel 2 litres),
20mm² up to 3.5 litres (diesel 2.5 litres)
25mm² up to 5 litres (diesel 3.5 litres).

			Peak Rating	
V327	16mm²	3m	300amp	1 set
V328	16mm²	5m	300amp	1 set
V329	20mm²	3m	350amp	1 set
V330	20mm²	5m	350amp	1 set
V331	25mm²	3m	450amp	1 set
V332	25mm²	5m	450amp	1 set

MINI BLADE FUSES

EFMB2	2amp Grey	10
EFMB3	3amp Violet	10
EFMB4	4amp Pink	10
EFMB5	5amp Lt. Brown	10
EFMB7.5	7.5amp Brown	10
EFMB10	10amp Red	10
EFMB15	15amp Blue	10
EFMB20	20amp Yellow	10
EFMB25	25amp Clear	10
EFMB30	30amp Green	10

BLADE FUSES

Add -10 to part no. for a pack of 10,
e.g. EFB3-10.

EFB1	1amp Black	50
EFB2	2amp Grey	50
EFB3	3amp Violet	50
EFB4	4amp Pink	50
EFB5	5amp Tan	50
EFB7.5	7.5amp Brown	50
EFB10	10amp Red	50
EFB15	15amp Blue	50
EFB20	20amp Yellow	50
EFB25	25amp Clear	50
EFB30	30amp Green	50
EFB40	40amp Amber	50

MAXI BLADE FUSES

EFXB20	20amp Yellow	5
EFXB30	30amp Green	5
EFXB40	40amp Amber	5
EFXB50	50amp Red	5
EFXB60	60amp Blue	5
EFXB70	70amp Tan	5
EFXB80	80amp Clear	5
EFXB100	100amp Violet	5

CONTINENTAL FUSES

EFC5	5amp Yellow	50
EFC8	8amp White	50
EFC16	16amp Red	50
EFC25	25amp Blue	50

DOMESTIC FUSES

EFD13	13amp	10

30mm GLASS FUSES

EFG1	1amp	50
EFG2	2amp	50
EFG3	3amp	50
EFG5	5amp	50
EFG8	8amp	50
EFG10	10amp	50
EFG15	15amp	50
EFG20	20amp	50
EFG25	25amp	50
EFG35	35amp	50
EFG50	50amp	50
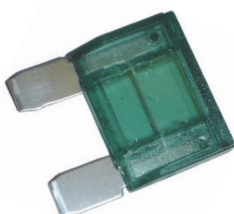
20mm RADIO FUSES

Add -10 to part no. for a pack of 10,
e.g. EFR3-10.

EFR1	1amp	50
EFR2	2amp	50
EFR3	3amp	50
EFR5	5amp	50
EFR10	10amp	50

STRIP FUSES

EFS30	30amp	10
EFS40	40amp	10
EFS50	50amp	10
EFS60	60amp	10
EFS80	80amp	10
EFS100	100amp	10

MIDI FUSES

EMD30	30amp Pink	1
EMD40	40amp Green	1
EMD50	50amp Red	1
EMD60	60amp Yellow	1
EMD70	70amp Brown	1
EMD80	80amp White	1
EMD100	100amp Blue	1
EMD125	125amp Orange	1
EMD150	150amp Black	1

MEGA FUSES

EMF100	100amp Yellow	1
EMF125	125amp Green	1
EMF150	150amp Orange	1
EMF175	175amp White	1
EMF200	200amp Blue	1
EMF225	225amp Tan	1
EMF250	250amp Pink	1
EMF300	300amp Grey	1
EMF400	400amp Purple	1
EMF500	500amp Brown	1

FUSIBLE LINKS (FEMALE)

EFLF20-5	20amp Lt. Blue	5
EFLF30-5	30amp Pink	5
EFLF40-5	40amp Green	5
EFLF50-5	50amp Red	5
EFLF60-5	60amp Yellow	5
EFLF80-5	80amp Black	5
EFLF100-5	100amp Blue	5

FUSIBLE LINKS (MALE 62)

EFLL30-5	30amp Pink	5
EFLL40-5	40amp Green	5
EFLL50-5	50amp Red	5
EFLL60-5	60amp Yellow	5
EFLL80-5	80amp Black	5
EFLL100-5	100amp Blue	5

FUSIBLE LINKS (MALE)

EFLM30-5	30amp Pink	5
EFLM40-5	40amp Green	5
EFLM50-5	50amp Red	5
EFLM60-5	60amp Yellow	5
EFLM80-5	80amp Black	5
EFLM100-5	100amp Blue	5

BLADE FUSE HOLDERS

Side entry. Takes a single standard blade fuse and has 6.3mm male blade terminals. These can be clipped together to form a multipule fuse block.
Colour: white.

EFH2WH Blade   10

Bottom entry. Takes a standard blade fuse and has a 6.3mm male blade terminal. They can be clipped to a mounting bracket, or together to form a multiple fuse block.

EFH3   Blade   10
EFH3B   Bracket   10

Scotchlok type. Takes a single standard blade fuse, is easy to use and snaps onto the cable without the need to cut or terminate the cable. 20 Amp maximum rating. Suitable for cable 1mm² to 2.5mm².

ESL6   Blade   20

Splashproof. A range of in line blade fuse holders with splashproof weather covers. The Mini and Std holders come with 1.5mm² cable, and the maxi holder with 3mm² cable.

EFH4   Mini Blade   10
EFH5   Std Blade   10
EFH6   Maxi Blade   10

CONTINENTAL FUSE HOLDERS

A single continental fuse holder with screw down cable connections at both ends.

EFH571 Continental   10

GLASS FUSE HOLDERS

A bayonet action in line auto type fuseholder with moulded body, suitable for 30mm glass fuses and fitted with 1mm² cable.

EFH1   Glass   10

MIDI FUSE HOLDER

This holder accepts a single midi fuse and comes with a snap shut lid and end mounting lugs. Cable connection is via 5mm rings on the end studs. Maximum cable size is 16mm².

EFH562 Midi   1

MEGA FUSE HOLDER

This holder accepts a single mega fuse and comes with a snap shut lid and end mounting lugs. These can be clipped together to form a multiple fuse block. Cable connection is via 8mm rings on the end studs. Designed for a cable range of 25 to 35mm².

EFH569 Mega   1

STRIP FUSE HOLDER

This holder accepts a single strip fuse, and comes with a snap shut lid and end mounting lugs. Cable connection is via 5mm rings on the end studs. Maximum cable size is 16mm².

EFH570   Strip   1

12v CIGAR SOCKETS
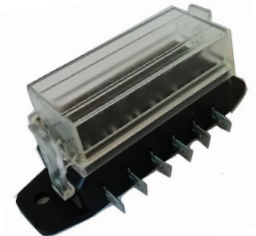
B260 Cigar Socket (Recessed)   1

B261 Cigar Socket (Surface)   1

BLADE FUSE BOXES

Side entry with 6.3mm male blade terminals, and a transparent cover and sealing gasket.

FBB4T   4 Way   1
FBB6T   6 Way   1
FBB8T   8 Way   1

Side Entry LED has a transparent cover, mounting holes, and a 5mm stud which feeds the blade fuses. Each fuse has a 6.3mm male blade terminal and a red LED light that glows when the fuse has blown.

FBB4L   4 Way LED 1
FBB6L   6 Way LED 1
FBB10L   10 Way LED 1

Bottom entry with 6.3mm male blade terminals, and a transparent cover and terminal securing bar.

FBB4U   4 Way   1
FBB6U   6 Way   1

LED RECESSED LIGHT

This 12v 2.6w LED recessed light has a brushed nickel surround and emits a bright warm white light. Ideal for boat interiors.

SY7453   1   (minimum order 40)

HANDLAMPS

Our range of COB LED superbright handlamps. All have magnetic bases with a 3.5 hour working time and come with a USB charger. All sold individually.

LEDP01   LEDP04   LEDP02   LEDP03

LEDP01	Flexible to 360°, super bright 330 lumens, slim blade handlamp.
LEDP04	Super bright 330 lumens handlamp, with light that moves up to 90°.
LEDP02	Super bright 270 lumens heavy duty handlamp, made for the toughest working environments.
LEDP03	Flexible to 180°, super bright 270 lumens handlamp, made for the toughest working environments.

MACSEN LAMPS

0161 971 0172

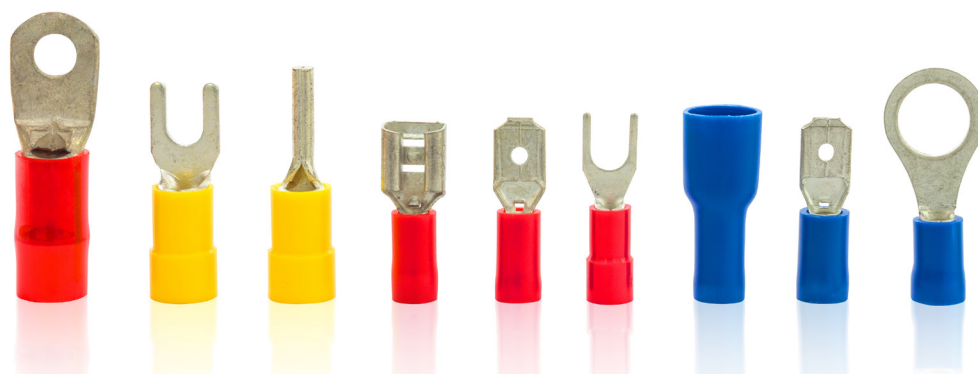thebulbman@macsenlamps.co.uk

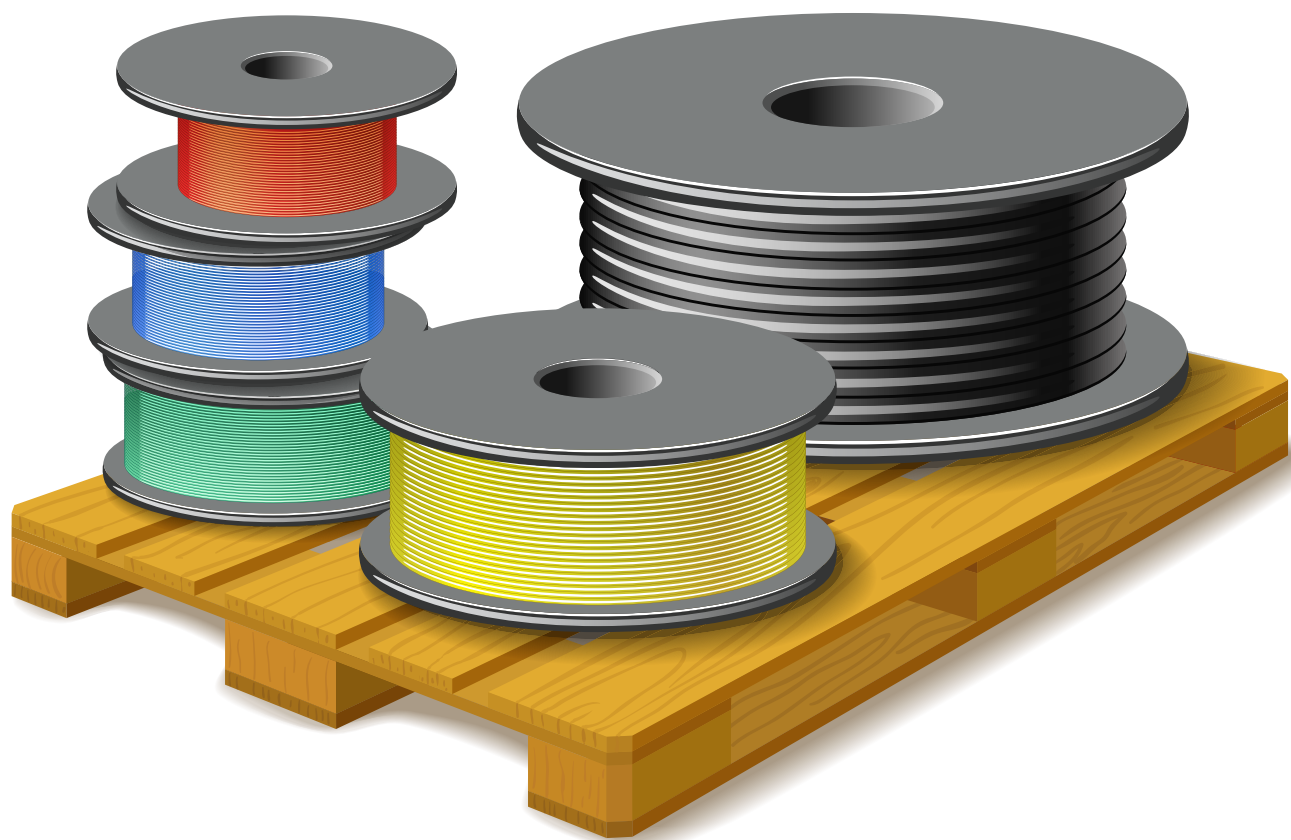www.macsenlamps.co.uk

TO PLACE AN ORDER:
Simply phone or email with your requirements and we will usually deliver your order to you within 2 working days. The minimum order from this catalogue is £25+VAT.

OTHER PRODUCTS
We may be able to source other associated products such as: tinned copper, silicone cable, busbars, relays, multiple connectors and more. Please enquire for more details.

Please see our other catalogues for our extensive range of high quality, original equipment specification auto bulbs and wiper blades.

MACSEN LAMPS