



ELIMEC

electro-mechanical engineering

iS ***Cabletec***

IS-Cabletec Introduction



Associated Companies



- ❖ IS-Cabletec is a leading manufacture in the field of metallic Braids for Aerospace, Defense & Industrial application.
- ❖ IS-Cabletec was founded in 1986.
- ❖ IS-Cabletec is a Part of IS Group. IS group has an approximately 200 employees with 2018's financial turnover of 40MGBP.
- ❖ IS-Cabletec has an approximately 40-45 employees with 2018's financial turnover of 4MGBP.
- ❖ Website : <http://www.is-cabletec.com/index.php>

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U8207	CABLETEC INTERCONNECT COMPONENTS SYS	SUNNYSIDE ROAD		WESTON-SUPER- MARE	SOMERSET	BS23 3PZ	UNITED KINGDOM	A	E
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Address

Sunnyside Road
Weston-super-Mare
North Somerset
UK
BS23 3PZ

Registered in England: No. 02330157 Cabletec ICS Ltd.
12 Charterhouse Square, London, EC1M 6AX, UK

Management:

Managing Director: Alessandro Lala

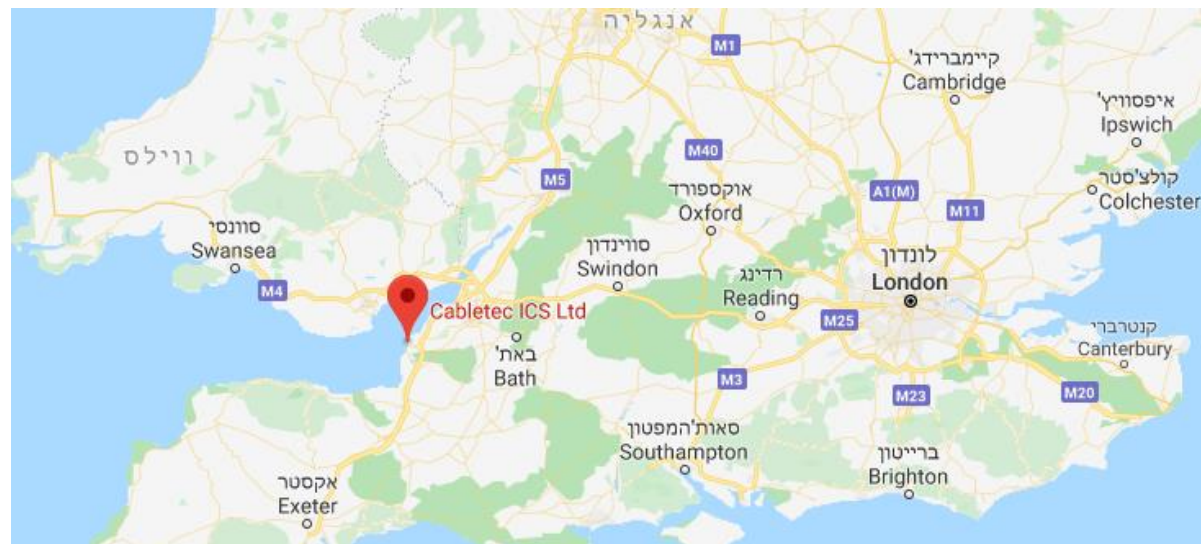
Finance Director: Mark Owen

General Manager : Alan Malone

Commercial Manager: James Alva

Karl Porter :Business Process Manager

Quality & Compliance Manager: Ken Leighfield



IS-Cabletec's Production Core

IS-Cabletec is a specialist manufacturer of high performance metal braided products, customized cables and bespoke assemblies for Aerospace, Defense and Industrial applications.



Approvals 1

Approvals

Quality Systems approved to
ISO 9001:2008
BS EN 9100
BS EN 9120

IS-Cabletec operates a documented Environmental Management System based on but not certified to ISO 14001, which includes audited procedures to assess any potential impact of our operations and ensure that we remain current with legislation. It also aims to control and minimise waste and emissions, and recycle where possible.

Customer Approvals

- ABB
- Agusta Westland
- Airbus
- BAE Systems
- Metronet
- Raytheon
- Rolls Royce
- SAAB
- Siemens
- Tube Lines



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AEROSPACE AND DEFENCE

Market Approvals Defence & Aerospace

IS-Cabletec is a supplier to many of the major aerospace and defence companies in Europe and are proud to have been an influential contributor to the development and promotion of EN4199; the ASD European standard for metal braid and bonding leads.

In addition to our standard products and customised bonding leads, we also manufacture to a comprehensive range of market approvals and specifications, some of which are listed below.



Airbus		
ASNE0088 to 0092 Round braid bonding leads, Tin and nickel-plated copper		
Typhoon (Eurofighter)		
JN1061	Flat braid bonding leads	Nickel-plated copper
JN1151	Flat & rope bonding leads	Nickel-plated copper
JN1006	Quick release bonding leads	Tin-plated copper
JN1077	Quick release bonding leads	Nickel-plated copper
JN1068	Rope bonding leads	Aluminium
Typhoon, Tornado & Hawk		
PAN6619	Quick release bonding leads	Tin-plated copper
General Market Approvals		
LN9264	Flat braid bonding leads	Tin and nickel-plated copper
CSP48	Flat bonding leads	Tin and nickel-plated copper
AGS2097	Flat braid bonding leads	Tin-plated copper

Bonding Leads- AEROSPACE, DEFENCE & Industrial

BONDING LEADS

cabletec

AEROSPACE & DEFENCE

1. **EN4199-004-N-7.0-160-H**
Nickel-plated copper, 7mm² bonding lead, tested and approved to EN4199-004.
2. **CBL260-10-BB-150**
Nickel-plated copper, 10mm² bonding lead, manufactured in accordance to EN4199-003.
3. **CRL260-13.0-150-C**
Nickel-plated copper, high flex endurance, 13mm² bonding lead.
4. **CFBA1068-BB-152.4**
Aluminium, light weight, 5mm² bonding lead.
5. **QBL150-T-150-A-S**
Tin-plated copper, 2.64mm² bonding lead fitted with a quick release TNC connector.
6. **CFBA9264-4-60-N**
Nickel-plated copper, 4mm² bonding lead, manufactured and approved to LN9264.
7. **CFBA2097-B-3-B**
Tin-plated copper, 0.7mm² bonding lead, manufactured and approved to AGS2097.



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BONDING LEADS

cabletec

INDUSTRIAL AND ENERGY

1. **FBL-16-150-M6**
Tin-plated copper, 16mm² flat braid bonding lead with durable pressed ferrule M6 terminals.
2. **RBL-25-150-M6**
Tin-plated copper, 25mm² rope bonding lead with M6 crimped terminals.
3. **CFBA**
Customised bonding lead; Cabletec provides a comprehensive design and build service producing a wide variety of customised bonding leads, each with their own unique part number. This sample is a flat braid bonding lead insulated with Nomex with crimped round terminals.
4. **CFBA**
Customised bonding lead. This is another example of the many options available from our customised bonding lead service. This sample is a tin-plated copper flat braid bonding lead with a customised pressed ferrule terminal.



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CFBA4199-004

Round Bonding Leads

CFBA4199-004 bonding leads are designed specifically for Aerospace and Military applications. They are manufactured to the EN4199-004 design, have undergone extensive mechanical and electrical testing including flex testing to 250,000 cycles, sinusoidal and random vibration cycles, salt mist resistance and temperature cycling.

CFBA4199-004 bonding leads are manufactured from multi-layer round braid and are available in tin plated and nickel plated copper in a variety of cross-sectional areas, lengths and termination options.



Applications

Military
Aerospace
Industrial

Materials

Tin plated copper -65°C to +150°C
Nickel plated copper -65°C to +260°C

Tested in Accordance EN4199-001
Designed for Aerospace and Defence Applications

Choice of Terminal Sizes
Tin and Nickel Plated Copper



IS-Cabletec's CBL range of flat style bonding leads are designed for aerospace and military applications, but are also suitable for higher performance industrial uses.

They are available with and without insulation in both tin-plated and nickel-plated copper in a range of cross-sectional areas.



Applications

Aerospace
Military
Industrial

Materials

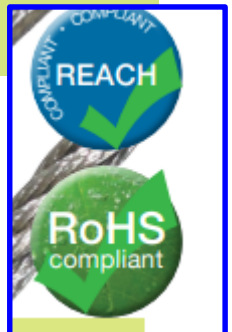
Tin-plated copper
Nickel-plated copper
Insulated

CBL150 Tin-plated Cu braid
CBL260 Nickel-plated Cu braid

Operating Temperature

- Tin-plated Cu: -65°C to +150°C
- Nickel-plated Cu: -65°C to +260°C
- Insulated -65°C to +150°C

**Manufactured in Accordance with
EN4199-003 Standard.
Flexible, Robust and Reliable**





IS-Cabletec's CRL260 bonding leads are designed to withstand exceptional levels of flexing in combination with outstanding resistance to corrosion and salt attack. When tested to the flex endurance test detailed in EN4199-001, they withstand over 5 million cycles, outperforming other existing aerospace standard leads by more than 5 times.

CRL260 bonding leads are particularly suited for dynamic applications in exposed areas such as external aircraft doors and flaps.



Applications

Military
Aerospace

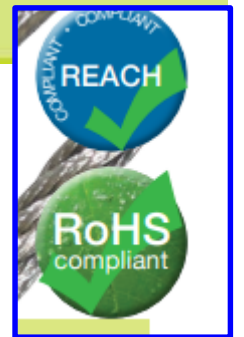
Materials

Nickel-plated copper

Operating Temperature

- Nickel-plated Cu: -65°C to +260°

flex endurance **Exceeds EN4199-001**
Choice of 5 Cross-Sectional Areas
Range of Terminal Sizes





Aluminum Bonding Leads

Aluminium Bonding Leads

IS-Cabletec's CFBA1068 aluminium bonding leads are designed for aerospace applications requiring electrical bonding in combination with light weight. They are supplied insulated and with a protective chromate conversion coating, making them particularly suited to applications in contact with aviation fuels.

CFBA1068 bonding leads are available in a range of lengths and 2 sizes of specially formed aluminium terminals.



**Lightweight 5mm² CSA
Aluminium*
Excellent Aviation Fuel Resistance**

Applications

- Aerospace
- Military

Materials

- Aluminium

Operating Temperature

- Aluminium: +200°





IS-Cabletec's quick release bonding leads provide an effective hand-releasable method of earth bonding electrical equipment. They are particularly useful for applications where a temporary connection is required or where equipment needs to be removed quickly over multiple times.

QBL bonding leads comprise of a flat tin-plated copper braid with a crimped ring terminal at one end and a BNC or TNC connector at the other. The connector is connected to equipment via a mating receptacle, mounted to the equipment to be earthed.



**Fast and Easy Release
BNC or TNC Connector
Various Lengths**

Applications

Aerospace
Military

Materials

Aluminium

Operating Temperature

- Tin-plated Cu: -55°C to +120°
- Insulated: -55°C to +120°



LN9264 Flat Style Bonding Leads

LN9264 is a long established aerospace and defence specification containing a series of uninsulated tin and nickel-plated copper bonding leads terminated with a range of crimp style round terminals. They are often found on legacy aircraft and form the basis of more recent bonding lead specifications such as JN1061 (Typhoon) and IS-Cabletec's CBL range.

They are available in 6 standard cross-sectional areas and a limited range of lengths.



Flat Style Braid
Aerospace and Military Approved
Tin and Nickel Plated Copper

Operating Temperature

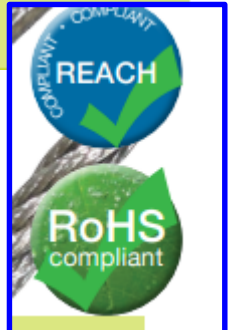
- Tin-plated Cu: -65°C to +150°C
- Nickel-plated Cu: -65°C to +260°C

Applications

Aerospace
Military

Materials

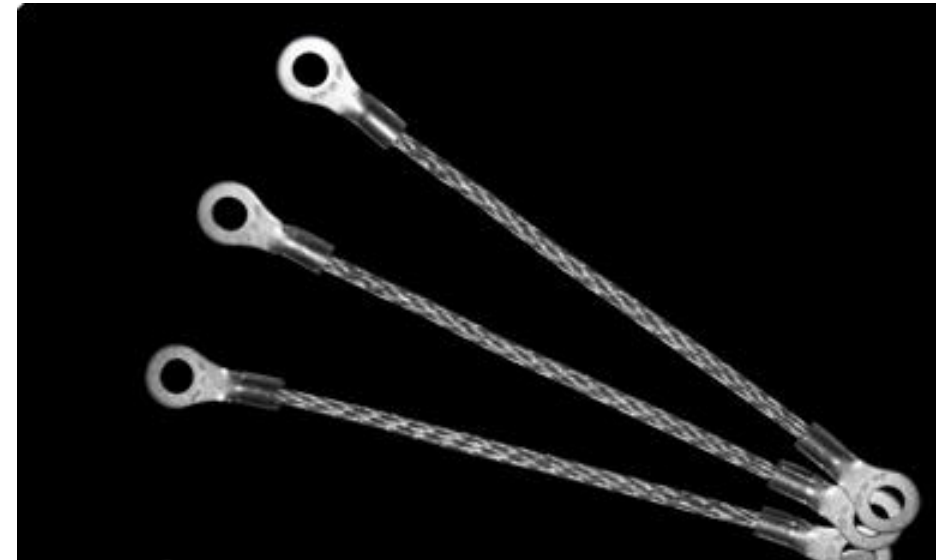
Tin-plated Copper
Nickel-plated Copper



AGS2097 Flat Style Bonding Leads

AGS2097 bonding leads are a series of aerospace approved bonding leads, generally, but not exclusively, found on legacy aircraft such as Tornado, Hawk and the C-130 (Hercules).

They are available with one standard braid size (0.7mm^2) and a combination of terminal sizes and lengths



**Aerospace Approved
Tin Plated Copper Braid
 0.7mm^2 Cross Sectional Area**

Operating Temperature

- Tin-plated Cu: -65°C to $+150^{\circ}$

Applications

Aerospace
Military

Materials

Tin-plated Copper

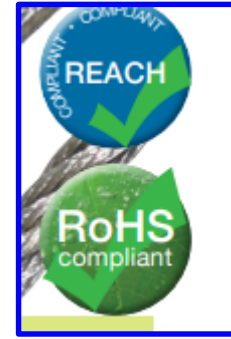


HBT99/90 EMI Screening Braid

HBT99 is a premium screening product providing exceptional protection for wire and cable harnesses from electromagnetic interference (EMI).

HBT99 is available in tin plated and nickel plated copper and provides optical coverage of between 93% and 99%. It is supplied on a former to maintain its round form and to aid its application and is recommended for wire systems demanding higher levels of protection from EMI.

Up to 99% Optical Coverage
-65°C to +260°C Nickel Plated
-65°C to +150°C Tin Plated



HBT90 is cost effective solution for shielding wire harnesses from electromagnetic interference (EMI).

It is supplied on a former to maintain its round form and to aid its application. HBT90 is available in tin plated copper and provides a minimum optical coverage of 90%, minimising cross-talk within the cable and internal or external interference.

Applications

- Aircraft
- Avionics
- Military
- Satellites
- Helicopters
- Marine

Materials

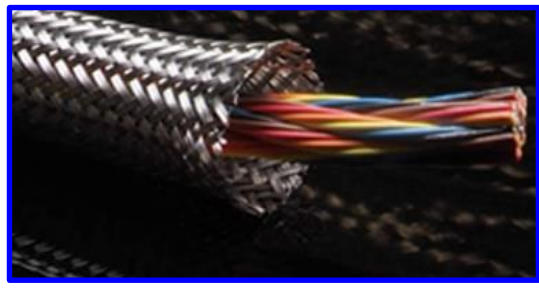
- Tin plated copper
- Nickel plated copper
- Other materials available

Specifications

- Up to 99% Optical cover
- Cable bundle screening
- Harness screening
- High expansion ratio
- Backshell screening



REG. Nr. 8319
Approved to
VG 96936-10



Applications

- Military electronics
- Commercial electronics
- Trains
- Marine
- Automotive
- Offshore platforms
- Metros

Materials

- Tin plated copper



Specifications

- 65°C to +150°C
- 90% Optical cover
- Easy to install
- Wire bundle screening
- Harness screening
- Conduit screening



REG. Nr. 8319
Approved to
VG 96936-10

PTFE Equipment Wire

PTFE equipment wire and cable exhibits superior high temperature performance and excellent resistance to organic fluids, acids and chemicals. Its thin-wall construction is the result of the exceptional properties of PTFE and as such offers space and weight savings in high-density wiring and circuitry. IS-Cabletec's PTFE wire is available as a custom specified multicore cable and is available pre-etched to aid encapsulation. PTFE wire and cable is widely used in industrial, aerospace, military and commercial electronics.



Technical Characteristics

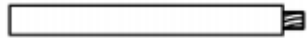
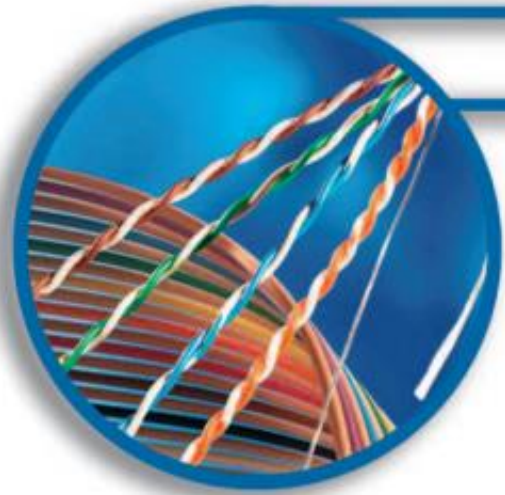
Continuous operating temperature	Silver-plated copper -75°C to +200°C Nickel-plated copper -75°C to +260°C
Voltage rating	300V, 600V and 1000V
Flammability	Non-flammable

Technical Characteristics

Silver-plated copper -75°C to +200°C
Nickel-plated copper -75°C to +260°C
Voltage rating 300V, 600V and 1000 V
Non-flammable

Specifications

NEMA HP3
BS 3G210
MIL-W-16878
Def Stan 61-12 Pt8
MIL-W-22759 - Special order
UL and CSA - Special order



Primary Wire



Twisted Pair



Screened & Jacketed Single



Screened & Jacketed Pair

Is-Cabletec is offering to manufacture a Custom made braids with standard TE Connectivity - Spec 44/55 or TYPE 99 wires per customer's request.



Metal Braids and Assemblies

Harnessing and Electro-Mechanical Solutions for Demanding Environment Applications



IS-Cabletec Custom Factory

Quick Response and Turnaround Supply

CFBA Custom Series

Customised Bonding Lead Solutions



Broad Range of Materials and Customisable Options
Short Lead Times and Low MOQ's

Insulation and Identification Options



***Thank You For Your
Time***