Identification
Product Solutions

Labels | Markers | Printing Systems | Software

HIGH PERFORMANCE IDENTIFICATION SOLUTIONS
Applications range from commercial component labelling through to high performance critical systems identification. Typical product performance characteristics include extreme temperature operation, zero halogen, low smoke, low toxicity, chemical resistance, abrasion resistant, electrical insulation, strain relief and UV resistance.

Identification and labelling products are increasingly important as the preferred method of identification and traceability, for harness wire and cable, control panel and components. Our product range covers a multitude of styles and materials including heat-shrinkable markers, tie-on, wrap-around and self-adhesive labels that meet international UL, CSA & Mil-Spec specifications. Products can be marked using a range of state of the art thermal transfer printers.

Mechanical Protection | Extreme Temperature Performance
Chemical Resistance | Fluid & Solvent Resistance | Moisture Protection
Strain Relief, Flexibility | Flame Retardant, Low Smoke
High shrink ratio | Low Shrink Temperature | Aesthetic Enhancement
Fast and Efficient Installation.
**Heat Shrinkable Markers**

### Pre-scoring Variants
IS-Rayfast offer a number of marker sleeves in four standard lengths of 50mm, 25mm, 16mm and 12.5mm. Our in-house ability to score sleeves as identified in the table above means we can secure the product you require when required. For non-standard lengths please contact us.

- **Un-scored sleeve**
- **S1 Scored sleeve for 2 x 25mm sleeves**
- **S2 Scored sleeve for 3 x 16mm sleeves**
- **S3 Scored sleeve for 4 x 12.5mm sleeves**

The example shows a approximate full size representation, using 11 point Arial font of the four standard variants.

---

### TMS-SCE Military Grade
Used to identify wire and cable in high performance military, aerospace and commercial applications. Made from a durable polyolefin that meets military standards. Supplied in a flat ‘ladder’ format for ease of printing.

- **Product**: TMS-SCE
- **Size range**: 3.2mm to 38mm
- **Operating Temperature**: -30ºC to +105ºC
- **Ratio**: 2:1
- **Features**: Low fire hazard

---

### HT-SCE High Temperature
Used to identify wire and cable in environments with high operating temperatures and are highly resistant to fuels, lubricants and solvents. Also ideal where low-vacuum outgassing is critical.

- **Product**: HT-SCE
- **Size range**: 3.2mm to 38mm
- **Operating Temperature**: -55ºC to +225ºC
- **Ratio**: 2:1
- **Features**: High temperature, low gas

---

### UV-SCE UV Clear
Designed to provide increased protection for identification products in outdoor applications. The clear heat-shrinkable sleeves provide a barrier to the effects of ultraviolet (UV) radiation and tough resistance to abrasion and fluids.

- **Product**: UV-SCE
- **Size range**: 3.2mm to 38mm
- **Operating Temperature**: -55ºC to +150ºC
- **Ratio**: 3:1
- **Features**: Fluid resistant

---

### D-SCE Fluid Resistant
Suitable for applications where exposure to organic fluids, especially oils, is required. Designed to operate in these conditions at elevated temperatures for extended periods, making them ideal for rail and construction industries.

- **Product**: D-SCE
- **Size range**: 2.4mm to 57mm
- **Operating Temperature**: -55ºC to +150ºC
- **Ratio**: 3:1
- **Features**: UV and fire retardant

---

### HX-SCE Halogen Free
Ideal for applications where limited fire hazard characteristics are necessary. The zero halogen material coupled with low smoke and low toxic fume emissions make the product ideal for use in enclosed spaces such as mass transit, marine and industrial installations.

- **Product**: HX-SCE
- **Size range**: 2.4mm to 38mm
- **Operating Temperature**: -55ºC to +135ºC
- **Ratio**: 2:1
- **Features**: UV resistant, clear

---

### RPS Commercial
RPS markers are heat-shrinkable marker sleeves for general industrial applications. Resistant to abrasion, aggressive cleaning solvents and industrial fluids.

- **Product**: RPS
- **Size range**: 2.4mm to 38mm
- **Operating Temperature**: -30ºC to 105ºC
- **Ratio**: 2:1
- **Features**: Commercial

---

### UV-SCE UV Colour
Offers extreme resistance to Ultra Violet (UV) and harsh weather conditions. Offering outstanding physical performance, mark permanence and legibility after 25,000 hours of UV and moisture exposure, without degradation.

- **Product**: UV-SCE
- **Size range**: 2.4mm to 38mm
- **Operating Temperature**: -55ºC to +200ºC
- **Ratio**: 3:1
- **Features**: Fluid resistant

---

**Approvals**

- **TMS-SCE**: SAE AS 81531 4.6.2 (mark permanence) MIL-STD-202F Method 215J (solvent resistance) UL 224 (file E35868)
- **HT-SCE**: High temperature, low gas
- **RPS**: Commercial
- **HX-SCE**: Low fire hazard
- **UV-SCE**: Fluid resistant
- **D-SCE**: UV and fire retardant
- **RPS**: Heat-shrinkable marker sleeves for general industrial applications.

---

**Contact Information**

- **uksales@is-rayfast.com** | **export@is-rayfast.com** | **+44(0)1793 616700** | **www.is-rayfast.com**

---

**IS-Rayfast**

Supplied in a flat ‘ladder’ format for ease of printing. From a durable polyolefin that meets military standards. Used to identify wire and cable in high performance industrial applications. Made from a durable polyolefin that meets military standards. Supplied in a flat ‘ladder’ format for ease of printing. From a durable polyolefin that meets military standards. Used to identify wire and cable in high performance industrial applications.

---

**Quality and Standards**

- **TMS-SCE**: MIL-STD-202F Method 215J (solvent resistance) UL 224 (file E35868) CSA Certified (file 31929)
- **HT-SCE**: High temperature, low gas
- **RPS**: Commercial
- **HX-SCE**: Low fire hazard
- **UV-SCE**: Fluid resistant
- **D-SCE**: UV and fire retardant
- **RPS**: Heat-shrinkable marker sleeves for general industrial applications.

---

**Markers**

- **TMS-SCE**: Heat Shrinkable
- **HT-SCE**: High Temperature
- **UV-SCE**: UV Clear
- **D-SCE**: Fluid Resistant
- **HX-SCE**: Halogen Free
- **RPS**: Commercial

---

**Approvals**

- **TMS-SCE**: SAE AS 81531 4.6.2 (mark permanence) MIL-STD-202F Method 215J (solvent resistance) UL 224 (file E35868)
- **HT-SCE**: High temperature, low gas
- **RPS**: Commercial
- **HX-SCE**: Low fire hazard
- **UV-SCE**: Fluid resistant
- **D-SCE**: UV and fire retardant
- **RPS**: Heat-shrinkable marker sleeves for general industrial applications.

---

**Contact Information**

- **uksales@is-rayfast.com** | **export@is-rayfast.com** | **+44(0)1793 616700** | **www.is-rayfast.com**

---

**IS-Rayfast**

Supplied in a flat ‘ladder’ format for ease of printing. From a durable polyolefin that meets military standards. Used to identify wire and cable in high performance industrial applications. Made from a durable polyolefin that meets military standards. Supplied in a flat ‘ladder’ format for ease of printing. From a durable polyolefin that meets military standards. Used to identify wire and cable in high performance industrial applications.

---

**Quality and Standards**

- **TMS-SCE**: MIL-STD-202F Method 215J (solvent resistance) UL 224 (file E35868) CSA Certified (file 31929)
- **HT-SCE**: High temperature, low gas
- **RPS**: Commercial
- **HX-SCE**: Low fire hazard
- **UV-SCE**: Fluid resistant
- **D-SCE**: UV and fire retardant
- **RPS**: Heat-shrinkable marker sleeves for general industrial applications.

---

**Markers**

- **TMS-SCE**: Heat Shrinkable
- **HT-SCE**: High Temperature
- **UV-SCE**: UV Clear
- **D-SCE**: Fluid Resistant
- **HX-SCE**: Halogen Free
- **RPS**: Commercial

---

**Approvals**

- **TMS-SCE**: SAE AS 81531 4.6.2 (mark permanence) MIL-STD-202F Method 215J (solvent resistance) UL 224 (file E35868)
- **HT-SCE**: High temperature, low gas
- **RPS**: Commercial
- **HX-SCE**: Low fire hazard
- **UV-SCE**: Fluid resistant
- **D-SCE**: UV and fire retardant
- **RPS**: Heat-shrinkable marker sleeves for general industrial applications.

---

**Contact Information**

- **uksales@is-rayfast.com** | **export@is-rayfast.com** | **+44(0)1793 616700** | **www.is-rayfast.com**
### CM-SCE-TP Polyolefin
These non adhesive labels can be used to identify large cables and wire bundles in particularly aggressive environments. Can be applied post cable termination using cable ties. Manufactured using specially developed radiation cross-linked flame retarded polymer. Typical installation include mass transit, military and aerospace.

#### Key Features
- Highly flame resistant, offering excellent resistance to burning with oxygen index of 35%.
- Resistant to key industrial and military grade fluids, as defined by RW-2513.
- The cable marker, including print, does not promote mould growth (ASTM G21 / 28 days - zero rating).

#### Approvals to
- SAE AS81531 4.6.2 (mark permanence)
- MIL-STD-202F Method 215J (solvent resistance)
- EN45545-2 'Hazard classification 3' set R24

#### Operating temperature
- -55ºC to +135ºC

### HLX125 Zero Halogen
These leading edge cable markers are made from LFH material for low smoke, low toxicity and zero halogen applications. These markers are attached to cables, bundles and larger wire by cable ties.

#### Approvals to
- SAE AS81531 4.6.2
- MIL-STD-202F Method 215J (solvent resistance)
- UL 224 (clause 14)
- ASTM D 2071
- BS 4G 198 Part 3

#### Operating temperature
- -40ºC to +105ºC

### PM316 Metal
Permark® 316 stainless steel markers are recommended for use in highly demanding applications. Using state of the art technology and no inks, the marking process produces a permanent, deep surface mark with a darkened character in high contrast to the background. Pre-print service option only. Offering excellent resistance to a variety of hydrocarbons, organic chemicals, acids, alkalis and inorganic salts.

#### Operating temperature
- -80ºC to +500ºC

### SBP Self-laminating
Clear vinyl film with a permanent acrylic based adhesive, supplied with a white thermal transfer printable area which is over-laminated upon application with clear portion of the label. Can also be 'flagged' around a wire rather than wrapped.

#### Approvals to
- UL MH17292 Group PGJ12 and CSA certified

#### Operating temperature
- -51ºC to +93ºC

### MP Metalised Polyester
Thermal transfer printable metalised polyester film with permanent acrylic adhesive. Designed for rating plates and other applications that require a metal look such as: nameplates, equipment labels, detailed product information labels and serial number plates.

#### Approvals to
- UL MH17292 Group PGJ12

#### Operating temperature
- -40ºC to +150ºC

### RMK-6 Self Print Epoxy
Computer printable label with outstanding fluid and abrasion resistance, designed for dot matrix printers (Epson LQ590 and LO590 Ribbon), please contact us for inkjet version. Similar to RMK-A4 but supplied on a roll in various widths, the heat reactive epoxy surface "locks-in" the printed image post heating.

#### Approvals to
- MIL-M-81531 (mark permanence)
- MIL-STD-202F method 215 (solvent resistance)

#### Operating temperature
- -40ºC to +150ºC (panel marking)

### RMK-A4 Self Print Epoxy
A computer printer label stock with outstanding fluid and abrasion resistance, for inkjet printers. When heat-cured after printing, the heat reactive epoxy surface "locks-in" the printed image. Typical applications are rating plate labels, wiring diagrams, component identification and wraparound markers.

#### Approvals to
- MIL-M-81531 (mark permanence)
- MIL-STD-202F method 215 (solvent resistance)

#### Operating temperature
- -40ºC to +150ºC (panel marking)
Printers Thermal Transfer

**T200 Printer**
A complete solution for your essential thermal transfer printing needs. The accuracy and flexibility of a movable media sensor extends the variety of products approved for this printer, while reducing the number of misprints.

**Key Features & Benefits**
- Desktop unit, light-weight and portable.
- Compact size 320mm x 253mm x 189mm.
- Automatic calibration.
- Simple ribbon and media loading procedure.
- Cutter and perforator option.
- Interfaces include USB 2.0 and LAN 10/100.

**Specifications**
- CE, FCC Class A, CB, CCC, UL, GOST
For your thermal printer ribbons please contact us for details.

**WinTotal Software**
WinTotal is a label/marker design package. Running in the familiar Windows environment, WinTotal features a highly graphical user interface to simplify operator training and application.

**System Requirements**
- Computer: IBM Compatible PC
- Processor: 1 GHz or higher
- RAM: 1GB
- Screen Resolution: 1024 x 768 pixels
- Disk Space Required: 100MB of free disk space

**Key Features & Benefits**
- Multi-lingual user interface.
- Pre-loaded WYSIWYG templates.
- Graphical user interface with WYSIWYG display
- Clipart gallery with commonly used symbols (V6 only).
- Incremental alpha and numeric fields.
- Accepts and prints data in numerous languages - UniCode data support (V6 only).
- Multiple Label Design Objects: Text, lines, boxes, circles and images.
- Double sided marker printing complete with WYSIWYG display.
- Extensive Barcode and 2D barcode support.
- Advanced label design elements & tools: Text boxes, rich text formatting, variable font size.
- Image files supported (JPG, WMF, BMP).
- Multiple Printers/Printing: Full MAPP (Multiple Application Port Printing) - Able to drive multiple printers simultaneously with automatic selection via product or dataset.

**Basic Functionalities**
- Toolbar design, ‘Keypad’ buttons, ‘Zoom In/Out’ functions.
- ‘Selected Product’ list box
- Simplified user interface configurable for both basic and advanced users
- Single file data format: One file now replaces multiple files used in older versions (old structure still supported).
- ‘System Setup’ screen with simplified printer selection: Advanced Printer Setup function shows all settings in one location.

**Data Management**
- Import data from ASCII or XMT files or from a Windows database
- ‘Database printing’ function for printing data without importing into WinTotal software
- ‘Preview’ option to review the import configuration without importing.

**Ordering Information**
- Standard printer: T200-IDENT-PRINTER
- Printer with WINTOTAL: T200-IDENT-SWARE-PRINTER
- Other accessories available include printhead, driveroller, cutter and perforator.

Both the T200 and TE3112 thermal printers offer 300dpi resolution printing which when combined with the recommended media and thermal transfer ribbons meet the most rigorous of industry standards in resolution and mark permanence.

**TE3112 Printer**
The TE3112 printer is a mid-range identification printer for marking heat-shrinkable marker sleeves, cable markers and labels. With a 300 dpi print head, it’s capable of marking a broad range of products for use in commercial and industrial environments. Robust design for 24 hour duty cycle.

**Key Features & Benefits**
- High accuracy printing.
- Light-weight and small footprint.
- Automatic calibration.
- Centre justification.
- Easy to fit accessories.

**Specifications**
- CE, FCC Class A, CB, CCC, UL, GOST
For your thermal printer ribbons please contact us for details.

The WinTotal software package is available to suit a Windows® environment and is constantly being developed in line with operating system updates and technology improvements, please enquire for latest release levels.

---

Specialist Provider of Custom Solutions for Identification and Labelling Projects
Cross Ref Ribbon/Product

It is essential that the combination of printers, products and ribbons are correct, to ensure the best print quality and mark permanence. Each combination has been evaluated for print quality and tested for mark permanence. The table below illustrates the standard ribbons available by product and against printer type.

For more information or guidance and alternative solutions please contact us.

<table>
<thead>
<tr>
<th>Compatible Products</th>
<th>Standard Ribbon</th>
</tr>
</thead>
<tbody>
<tr>
<td>CM-MIX</td>
<td>1330-3300-10</td>
</tr>
<tr>
<td>CM-SCE-TP</td>
<td>1966-RIBBON</td>
</tr>
<tr>
<td>D-SCE</td>
<td>1966-RIBBON (for superior performance)</td>
</tr>
<tr>
<td>HLX125</td>
<td>1966-RIBBON</td>
</tr>
<tr>
<td>HS</td>
<td>1966-RIBBON (for superior performance)</td>
</tr>
<tr>
<td>HT-SCE</td>
<td>TMS-RUS-RIBBON-4HT</td>
</tr>
<tr>
<td>HT-SCE (Black)</td>
<td>T300-RIBBON-WH-4HT</td>
</tr>
<tr>
<td>HX / HX-SCE</td>
<td>1966-RIBBON</td>
</tr>
<tr>
<td>Multimark</td>
<td>TMS-RUS-RIBBON-4RPSCE</td>
</tr>
<tr>
<td>RPS</td>
<td>TMS-RUS-RIBBON-4RPSCE</td>
</tr>
<tr>
<td>NBC-SCE</td>
<td>TMS-RUS-RIBBON-4HT</td>
</tr>
<tr>
<td>TMS-SCE</td>
<td>TMS-RUS-RIBBON-4RPSCE</td>
</tr>
<tr>
<td>TMS-SCE (Black)</td>
<td>T300-RIBBON-WH (White) or TMS-RUS-RIBBON-4AG (Silver)</td>
</tr>
<tr>
<td>TMS-90-SCE</td>
<td>1966-RIBBON</td>
</tr>
<tr>
<td>UV-SCE</td>
<td>T300-UV-SCE-RIBBON</td>
</tr>
<tr>
<td>Decals (TTP)</td>
<td>1330-0607-10</td>
</tr>
<tr>
<td>Destructible Polyethylene (T0)</td>
<td>1330-0607-10</td>
</tr>
<tr>
<td>HPK</td>
<td>1330-0807-10</td>
</tr>
<tr>
<td>Kapton® Polyamide (T1/T2K)</td>
<td>1330-0819-10</td>
</tr>
<tr>
<td>Nylon cloth (NC)</td>
<td>1330-0807-10</td>
</tr>
<tr>
<td>Paper (EP)</td>
<td>1330-0600-10</td>
</tr>
<tr>
<td>Polysteresters (WP/MP/CP/HP/HP/M/HM/MM)</td>
<td>1330-0607-10</td>
</tr>
<tr>
<td>SBP</td>
<td>TMS-RUS-RIBBON-4RPSCE</td>
</tr>
<tr>
<td>Tedlar® Polyvinyl Fluoride (TTVF/PVF)</td>
<td>1330-3300-10</td>
</tr>
<tr>
<td>White Vinyl (WV)</td>
<td>1330-0807-10</td>
</tr>
</tbody>
</table>

EC9926-000 Universal Payoff

The Universal Payoff is a free standing bench top, or wall mounted stand. Designed to dispense all TE Connectivity (TE) identification marker sleeves, cable markers and labels.

**Key Features & Benefits**
- Free standing bench top
- Wall mountable for space saving
- Robust, all metal stand
- Maximum outside roll diameter 400mm
- Size 300(D) x 232(H) x 200(W) millimetres
- Weight 2.23kg

Pre-print Services

We have a full electronic capability, to receive and manipulate customer files for printing. Printing capabilities include logos, barcodes, images and a full range of text fonts. Working closer with our customers providing practical design solutions, full technical support, site visits, system demonstrations and after sales support. Our in-house design and printing capabilities include a full range of text fonts, sequential numbering, logos, barcode, images and personalised graphics.

Custom designed solutions is an area of particular interest to our customers for their bespoke identification needs. Where awkward shapes or harsh environments require a particular specialist solution, such as:
- Ruggedised label applied to contoured surface that needs to withstand mechanical abrasion, environmental weathering, plus chemical solvent abuse.
- Metalised permanent adhesive labels that evidence tampering.
- Control switch panel foil for external application, to withstand UV.
- Etched identification diagrams on various substrates for permanent environmental withstand.

For further information on the Pre-print service capabilities available or to discuss your specific labelling requirements, please contact us.

Heat Shrinkable Sleeves
Metal Photo Labels
 Tie-on Cable Markers
Custom Self-adhesive Labels
Tubing Pre-cut & Printed
Engraved Materials
Complete Sets and Kits
Barcodes and Logos

Specialist Provider of Custom Solutions for Identification and Labelling Projects
Specialist Distributor of High Performance Electrical Interconnect & Electro-Mechanical Components and Services.

Working closely with suppliers and manufacturers worldwide we offer a comprehensive range of high performance components and associated products for the Aerospace, Defence, Energy, Industrial, Medical and Motorsport markets. Our experienced team includes specialists by sector and by product, to provide leading customer service. With immediate access to in excess of 8,000 product lines from an extensive “off the shelf” stock profile for next day delivery as standard, along with flexible MOQ’s and pack sizes.

We are fully committed to complying with the latest quality approvals for the customers and markets we serve, including ISO9001:2008 and AS9120:2005.

Tel: +44(0) 1793 616700  •  Fax: +44(0) 1793 644304
uksales@is-rayfast.com  •  export@is-rayfast.com

www.is-rayfast.com
2 Lydiard Fields, Swindon, Wiltshire, SN5 8UB, UK

Authorised distributors for:

Brand-Rex  •  Breyden  •  Cotronics  •  DJD Technologies

Federal Mogul  •  Gudebrod  •  Lapp Muller  •  NKK Switches

Otto  •  Panduit  •  PIC Wire & Cable  •  TE Connectivity

Some of the images and illustrations used in this publication are used with permission and or under open licence agreement, attributed to various sources including: Defencemagery.mod.uk; Herbert Ortner; OTTO; TE Connectivity; Wikimedia. For full details please contact us. All information contained in this publication is believed to be reliable. We advise however that customers should separately evaluate the suitability of our products for their particular application. IS-Group give no guarantee in respect of the accuracy or sufficiency of the information presented and disclaim any liability regarding its use. Our responsibilities are only those listed in our Standard Terms and Conditions of Sale for these products. In no instance will we be liable for any eventual, indirect, or consequential damage or damages from the sale, resale, transfer, use or misuse of the product. Design and content is © 2015 all rights reserved.