# HS/HC

## COMPUTERISED HEAT-SHRINK INDENTIFICATION

### Technical Datasheet

TTDS-033 Revision 8 - October 2015

**HS/HC Heat shrink markers are a range of flattened tubes arrange for easy printing through a selection of printers, carrier automated, notation on…**

Manufactured using a specially developed radiation cross-linked, flame retarded material. Thin wall, flame retarded radiation cross-linked polyolefin heat-shrinkable tubing, assembled as organized cut sleeves on a paper carrier.

HS products are 2:1 shrink ratio. HC products are 3:1 shrink ratio.

HS/HC Heat Shrink Identification Marker Sleeving is available as part of a complete identification system. The system comprises specific printers, thermal transfer ribbons and WINTOTAL software.

Laser markable using industrial YAG laser

### Features

- HS Available in sizes 2.4 up to 38.1
- HC Available in sizes 2.4 up to 39.0
- Computer based printing system
- Excellent resistance to common industrial fluids, as described in RW-2539

### Temperature Rating

- Operating Temperature –55°C to 135°C (-67°F to 275°F).

### Applications

- Pre-Termination wire and cable identification.
- Identification of wire or cable diameters 1.4 to 16mm (0.055 to 0.63 inches).
- Rail
- Military and Aerospace
- Electronics, Mass transit and general Industrial uses.

### Design For Environment

- The compound used for this product meets all current RoHS and REACH legislation.
- Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the 'TE Product Compliance Support Centre':
http://www.te.com/usa-en/utilities/product-compliance.html

### Specifications / Approvals

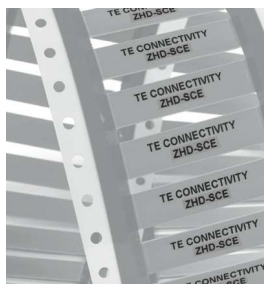| | |
|---|---|
| **TE Connectivity Standard** | **RW-2539** |
| **Military** | **AMS-DTL-23053/5 Class 1** - HS and HC product (except HC dimensions) |
| | **MIL 202 Method 215 -** Resistance to Solvents |
| | **SAE AS5942 -** Marking for Electrical Materials |
| **Aerospace** | **BS 4G 198 Part 3** - Resistance to fluids |

**Where possible, TE has tested product as a finished item, including the print.  Operational tests are followed by an assessment of mark adherence to validate fit, form and function.  Further details can be found in TE standard RW-2539.**



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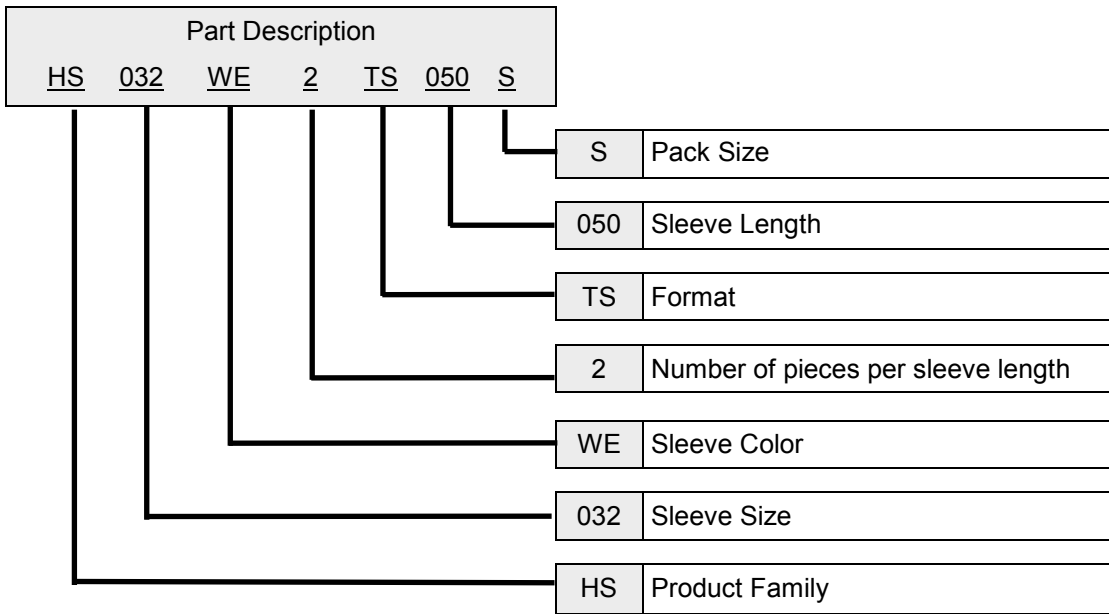### Ordering Information

| Part Description | | | | | | | |
|---|---|---|---|---|---|---|---|
| HS | 032 | WE | 2 | TS | 050 | S | |

| | |
|---|---|
| S | Pack Size |
| 050 | Sleeve Length |
| TS | Format |
| 2 | Number of pieces per sleeve length |
| WE | Sleeve Color |
| 032 | Sleeve Size |
| HS | Product Family |

### Options

**Pre-Scoring**

Perforated or cut score to produce multiple marker sleeves per sleeve length

| | |
|---|---|
| Not Scored | Code 1 |
| 1 Score | Code 2 |
| 2 Scores | Code 3 |

**Sleeve length**

| | |
|---|---|
| 38mm | Code 038 |
| 50mm | Code 050 |

**Format**

| | | |
|---|---|---|
| Dot matrix single sided | Code | NF |
| Dot Matrix Double sided | Code | DS |
| Thermal transfer single sided | Code | TS |
| Thermal transfer double sided | Code | DT |

**Pack Sizes** [1]

| Code | | |
|---|---|---|
| Code | B = Bulk Pack | Dot Matrix Only |
| Code | X = Extra large | |
| Code | S = Standard | Thermal Transfer Only |

[1]Number of sleeves is dependant on tube size

### Color Codes

| Code | Tube Color | Code | Tube Color |
|---|---|---|---|
| WE | White | GN | Green |
| YW | Yellow | BE | Blue |
| RD | Red | VT | Violet |
| OE | Orange | GY | Grey |
| BN | Brown | BK | Black |

### Sleeve Size Options (supplied diameter)

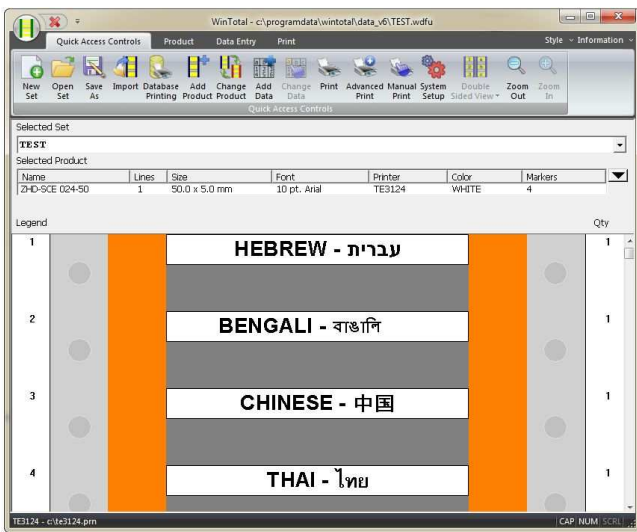| Code | HS | Code | HC |
|---|---|---|---|
| 024 | 2.4mm | 024 | 2.4mm |
| 032 | 3.2 | 030 | 3.0 |
| 048 | 4.8 | 050 | 5.0 |
| 064 | 6.4 | 060 | 6.0 |
| 095 | 9.5 | 090 | 9.0 |
| 127 | 12.7 | 120 | 12.0 |
| 190 | 19.0 | 180 | 18.0 |
| 254 | 25.4 | 240 | 24.0 |
| 381 | 38.1 | 390 | 39.0 |

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### Printer Information

Print quality and print performance can only be guaranteed when specific TE printer and ribbons are used.

The current list of printers and ribbons can be found in TE document 411-121005 'Identification Printer Product Ribbon Matrix'. This document can be found in 'Access Our Tools':
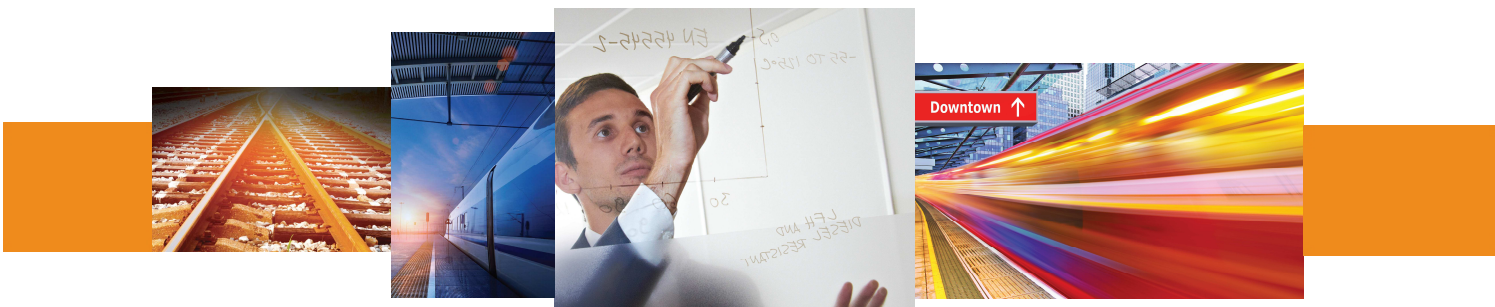
http://www.te.com/usa-en/utilities/access-product-tools-



### Software

WINTOTAL[1] software, available to download for a 14 day evaluation period from the Identification Printer Software page:

http://www.te.com/usa-en/products/identification-labeling/printers-software.html

Contact a TE representative for further information

[1]WINTOTAL 5.4.04 must be used for Dot Matrix printing



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