



# ZHD-SCE LOW FIRE HAZARD DIESEL RESISTANT HEAT SHRINK IDENTIFICATION SYSTEM

## Technical Datasheet

TTDS-263 Revision 6 October 2015

**ZHD-SCE Zero Halogen, Diesel Resistant, Heat Shrink Identification Marker Sleeves for the identification of wires and cables.**

ZHD-SCE is presented as cut sleeves organised in ladder format.

Manufactured using a specially developed radiation cross-linked, zero halogen material. ZHD-SCE is designed specifically to bridge the gap for installations where the highest performance is demanded from an identification sleeve, without compromising on safety or capability.

ZHD-SCE Heat Shrink Identification Marker Sleeves are available as part of a complete identification system. The system comprises specific printers, thermal transfer ribbons and WINTOTAL software.

PAGE 1

# ZHD-SCE, LOW FIRE HAZARD, DIESEL RESISTANT HEAT SHRINK CABLE IDENTIFICATION SYSTEM

## Features

- Zero Halogen
- Low Toxic Fumes
- Non-flame propagating
- Resistant to key rail and industrial fluids including diesel (defined by RW-2536)
- Sleeve diameters from 2.4mm to 38.1mm
- Shrink ratio 2:1

## Applications

- Pre-termination Cable Identification
- Suitable for locations where there is a fire risk to people or equipment
- Suitable for installations that require outstanding fluid resistance, especially from diesel, from a zero halogen identification sleeve
- Rail, Mass transit, Aerospace, Marine and Heavy Industrial

## Specifications / Approvals

**TE Connectivity Standard**    **RW-2536**

### Rail Standards

**EN45545-2**, Hazard Classifications 1 and 2, In accordance with requirement set R22/R23

**BS 6853** Code of practice for fire precautions in the design and construction of passenger carrying trains.

Interior minor use of materials of mass 100g to 500g vehicle category II

**EN 50343** Rolling stock applications - Rolling stock - Rules for installation of cabling - Appendix H

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-2536.

## Temperature Rating

- Operating Temperature Range -55°C to 125°C (-67°F to 257°F)

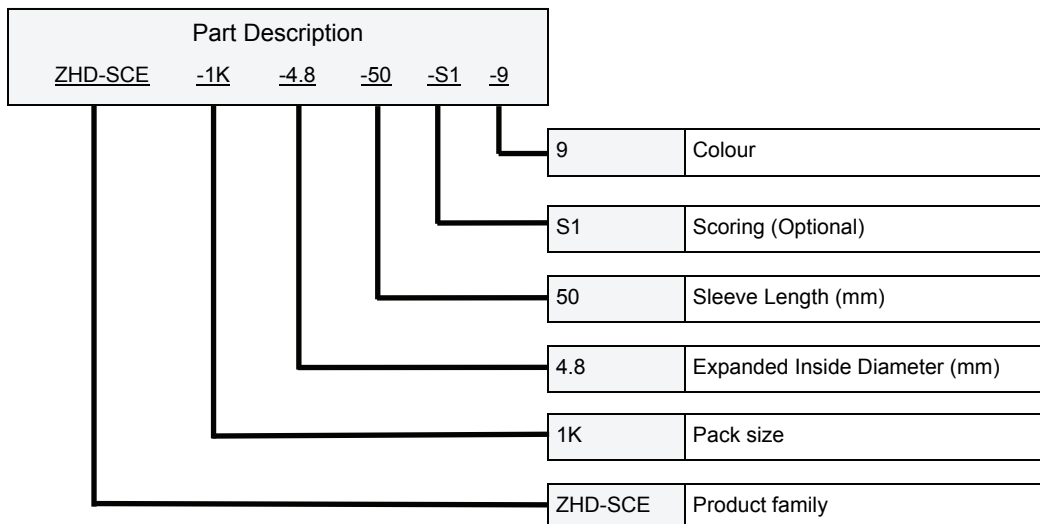
## Design For Environment

- No Halogens, Sulphur, Nitrogen, Phosphorus and Cadmium sources above trace level. The flame retardant used in this product does not contain melamine cyanurate
- 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>

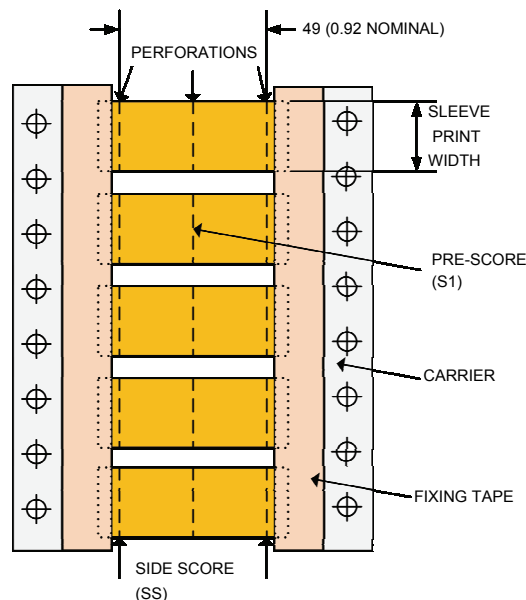


PAGE 2



Options

|                        |   |   |       |      |        |
|------------------------|---|---|-------|------|--------|
| <b>Pre-scoring</b>     | Perforated score to produce multiple marker sleeves from each ZHD-SCE sleeve. |   |       |      |        |
|                        | Not scored  | Code  | Blank |      |        |
|                        | Side scored   | Code  | SS    |      |        |
|                        | Sided scored with one pre-score   | Code  | SS1   |      |        |
|                        | 1 Pre-score   | Code  | S1    |      |        |
|                        | 2 Pre-scores  | Code  | S2    |      |        |
| <b>Packaging sizes</b> | <blank>   | 250 piece packs available for all sizes             |       |      |        |
|                        | 1K  | 1000 piece reels available for all sizes up to 25.4 |       |      |        |
|                        | 2.5K  | 2500 piece reels available for sizes 4.8 up to 25.4 |       |      |        |
|                        | 5K  | 5000 piece reels available for sizes 2.4 and 3.2    |       |      |        |
| <b>Colours</b>         | Code  | Yellow  | White |      |        |
|                        |   | 4   | 9     |      |        |
|                        | Code  | Red   | Green | Blue | Orange |
|                        |   | 2   | 5     | 6    | 3      |



Specify product name, pack size (leave blank for 250), sleeve size (in mm), sleeve length (always 50), pre-score (leave blank if not required) and colour

Dimensions in mm (inches)

Ordering Information

| Ordering description                                   | Inside diameter       |        |                          |        | Recommended cable diameter use range |                |
|--|-----------------------|--------|--------------------------|--------|--------------------------------------|----------------|
|  | As supplied (minimum) |        | After recovery (Maximum) |        |                                      |                |
|  | mm                    | inches | mm                       | inches | mm                                   | inches         |
| ZHD-SCE - <pack size> - 2.4 - 50 - <score> - <colour>  | 2.4                   | 0.094  | 1.19                     | 0.047  | 1.27 to 1.90                         | 0.050 to 0.075 |
| ZHD-SCE - <pack size> - 3.2 - 50 - <score> - <colour>  | 3.2                   | 0.126  | 1.58                     | 0.060  | 1.77 to 2.66                         | 0.069 to 0.105 |
| ZHD-SCE - <pack size> - 4.8 - 50 - <score> - <colour>  | 4.8                   | 0.189  | 2.36                     | 0.090  | 2.54 to 4.06                         | 0.100 to 0.160 |
| ZHD-SCE - <pack size> - 6.4 - 50 - <score> - <colour>  | 6.4                   | 0.250  | 3.18                     | 0.125  | 3.81 to 5.46                         | 0.150 to 0.215 |
| ZHD-SCE - <pack size> - 9.5 - 50 - <score> - <colour>  | 9.5                   | 0.375  | 4.75                     | 0.187  | 5.59 to 8.12                         | 0.220 to 0.320 |
| ZHD-SCE - <pack size> - 12.7 - 50 - <score> - <colour> | 12.7                  | 0.500  | 6.35                     | 0.250  | 6.99 to 10.79                        | 0.275 to 0.425 |
| ZHD-SCE - <pack size> - 19.0 - 50 - <score> - <colour> | 19.0                  | 0.730  | 9.53                     | 0.375  | 10.16 to 16.25                       | 0.400 to 0.640 |
| ZHD-SCE - <pack size> - 25.4 - 50 - <score> - <colour> | 25.4                  | 1.000  | 12.70                    | 0.500  | 14.29 to 21.59                       | 0.563 to 0.850 |
| ZHD-SCE - 38.1 - 50 - <score> - <colour>               | 38.1                  | 1.500  | 19.05                    | 0.750  | 20.95 to 33.02                       | 0.825 to 1.300 |



**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-and-resources.html>



**Software**

WINTOTAL 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



**www.te.com/rail**

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)