

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: HeatShrinkable Interconnections with Solder Alloys

Containing Pb, Sn, Cd, Ag

MANUFACTURER: TE Connectivity

DIVISION: Aerospace, Defense & Marine

ADDRESS: 300 Constitution Drive

Menlo Park, CA 94025-1164 USA

PARTS COVERED B-003, B-004, B-005, B-009, B-014, B-015, B-016, B-020, B-021, B-023, B-024, B-025, B-026, B-026, B-027, B-028, B-

028, B-040, B-041, B-043, B-044, B-045, B-046, B-050, B-051, B-053, B-055, B-058, B-060, B-066, B-067, B-070, B-090, B-152, B-166, B-167, B-202, B-300, B-500, B-501, B-801, B-802, B-804, C-110, C-128, C-144, C-704, CSP, CTA, D-100, D-101, D-102, D-103, D-104, D-105, D-106, D-107, D-110, D-112, D-113, D-128, D-129, D-133, D-134, D-136, D-141, D-144, D-146, D-148, D-150-0094/-0096, D-150-0124, D-150-013X, D-150-016X, D-150-018X, D-150-019X, D-150-021X, D-150-0214, D-150-022X, D-150-027X, D-150-032X, D-150-0330/-0337, D-150-03XX-TF, D-150-0340/-0341, D-150-0347/-0348, D-150-0349/-0357, D-150-0378/-0381, D-150-0708, D-150-10XX, D-150-1168-/-1181, D-150-2X, D-150-91XX, D-150-92XX, D-151, D-153, D-155, D-181, D-183, D-600, D-602, D-603, D-607, D-610, D-621, D-659, D-700, D-701, D-704, D-710, D-711, D-713, D-714, D-715, D-750, DK-602, PBD, PBF, PTD, RBD, RTD, S01, S02, S03, SO63, SGRN, SGRP, SGRS,

SGRT, ST63, W-040, W-043, W-062, W-063.

EMERGENCY TELEPHONE NUMBERS: US: CHEMTREC 1-800-424-9300

CN: CHEMTREC 1-800-424-9300
Outside North America: 1-703-527-3887

(Collect calls accepted)

NON-EMERGENCY HEALTH/SAFETY INFORMATION: (US) 1-800-522-6752

(CAN) 1-905-475-6222

CHEMICAL FAMILY: Metal Alloy

PRODUCT USE: Typical uses of Interconnection Products include wire or cable joining, splicing and

termination, electrical insulation, strain relief and protection from environmental effects.

This product is not hazardous when used as recommended or intended. If this product is overheated, charred, or burned the health and safety information presented in this SDS may apply.

Thermal decomposition and combustion byproducts may be regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labelling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH).

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

OSHA HAZARDS: None Applicable

GHS CLASSIFICATION: Not classified as hazardous under any GHS hazard class.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

PICTOGRAM:

SIGNAL WORD: WARNING!

HAZARD STATEMENT(S) Molten material will produce thermal burns

PRECAUTIONARY Interconnection Products are not hazardous during proper installation, as directed by

STATEMENT(S): product installation guides.

Heat-shrinkable tubing may emit hazardous thermal decomposition and combustion byproducts if overheated or burned. Thermal degradation and combustion byproducts may

be toxic and should not be inhaled.

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HMIS HAZARD CLASSIFICATIONS (US/CN/EU):

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

POTENTIAL HEALTH EFFECTS:

Proper installation of this product creates no known acute or chronic health hazards.

ACUTE HEALTH HAZARDS:

EYES: Contact with fumes from molten metal may cause irritation. Contact with hot or molten material may

cause thermal burns.

SKIN: This product is not expected to be a skin irritant. Contact with overheated or molten material may cause

thermal burns cool immediately with cold water. Do not attempt to remove material adhering to the skin.

Treat as a burn.. No harmful effects are expected from skin absorption of this product.

INGESTION: Ingestion of this product is highly unlikely. There is insufficient information available on this material to

predict the effects from ingestion. If swallowed and symptoms develop, seek medical attention.

INHALATION: Thermal degradation and combustion byproducts may be toxic and should not be inhaled. If exposed to

vapours or fumes from overheated or burnt material, move the affected person to fresh air. Keep warm and at rest. If breathing problems develop, oxygen should be administered by qualified personnel. Seek

immediate medical attention.

(See comments in the Section Hazardous Combustion Byproducts for more specific information.)

CHRONIC HEALTH HAZARDS:

Product testing has demonstrated that there is no exposure to metal fumes from the solder present in these products, even at temperatures where thermal degradation of the tubing occurs.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Overheating the product to melting or burning can produce vapours that may cause eye, skin, nose and throat irritation. Persons with pre-existing eye, skin, or respiratory disorders (e.g., asthma conditions) may be more susceptible to the effects of these vapours.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Base polymer materials include polyethylene, olefin copolymers, and fluoropolymers.

Solder may contain antimony, silver or tin, depending on type used.

<u>NOTE</u>: The solder present in these products is encased in heat-shrinkable tubing. The solder consists of metals. Product testing has demonstrated that there is no exposure to metal fumes, even at temperatures where thermal degradation of the tubing occurs.

INGREDIENTS (Chemical/Common Names):	CAS No.:	% by Wt:	EC No.:
Lead	7439-92-1	32 - 93	231-100-4
Tin	7440-31-5	5 - 62	231-141-8
Cadmium	7440-43-9	0 - 18	231-152-8
Silver	7440-22-4	0 - 2	231-131-3

SECTION 4: FIRST AID MEASURES

EYE CONTACT: If eye irritation occurs, flush affected area(s) with clean water for 15 minutes while holding eyelids

apart. Seek medical attention.

SKIN CONTACT: First Aid is normally not required. Wash hands after handling product. If molten material contacts

skin, cool area immediately in water. DO NOT attempt to remove material from the skin. Treat as a

burn, and seek medical attention.

INGESTION: Not a normal route of exposure. However, if swallowed and symptoms develop, seek medical

attention.

INHALATION: If respiratory symptoms or other symptoms of exposure develop, move individual to fresh air. If

symptoms persist, seek medical attention. If breathing difficulties develop, qualified personnel should administer oxygen. Seek immediate medical attention. If individual is not breathing move them to fresh air, immediately begin artificial respiration. Keep individual warm and quiet seek immediate

medical attention

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: Not determined METHOD USED: Not applicable

FLAMMABLE LIMITS

UPPER FLAMMABILITY LIMIT (% BY VOLUME): Not applicable LOWER FLAMMABILITY LIMIT (% BY VOLUME): Not applicable

AUTOIGNITION TEMPERATURE: Not determined

SUITABLE EXTINGUISHING MEDIA:

Use carbon dioxide, water, dry chemical, foam and dry powder.

Use water spray to keep fire-exposed containers cool.

Selection of extinguishing media should be based upon the size of the fire, the firefighting training/experience of the individual attempting to extinguish or control the fire, and the packaging materials exposed to the fire.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:

Firefighters should wear self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode when fighting fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic fumes may be given off in a fire. See section on Hazardous Combustion Byproducts.

SPECIFIC HAZARDS IN CASE OF FIRE:

At temperatures that may be reached in the case of a fire, oxide fumes or particulates of metals may be released from solder.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal degradation and combustion byproducts may be toxic and should not be inhaled. Thermal degradation is not significant at temperatures achieved during proper installation, as directed by product installation guides.

At temperatures higher than those recommended for proper installation, most significantly if the heat-shrinkable tubing burns, the thermal degradation and combustion byproducts may include, but are not limited to carbon monoxide, carbon dioxide, aldehydes (including formaldehyde), acetic acid, low molecular weight hydrocarbons, hydrogen fluoride, and fluoro-olefins,.

At temperatures that may be reached in a fire, interconnect combustion byproducts may include, but are not limited to oxide fumes or particulates of lead, tin, antimony or silver.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear appropriate personal protection when responding, as specified under Section 8: Exposure Controls/Personal Protection

ENVIRONMENTAL PRECATIONS:

Prevent spilled material from entering sewers and waterways.

SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS:

Sweep up and collect in a suitable container for disposal or reuse. If molten, cool to allow metal to solidify.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND STORAGE:

Handling: Refer to TE product installation instructions. For products containing a thermochromic temperature indicator, discontinue heating after the color changes from red to colorless. Avoid any vapors given off if the product is heated to decomposition, as shown by a darkening and browning of the sleeve. Avoid contact with molten material. Heat-resistant gloves are required if hot products are handled after installation. Do not consume food, beverages or tobacco in the immediate work area. Wash hands before eating, drinking or smoking.

Storage: Refer to TE product instructions. This product is stable under normal conditions.

OTHER PRECAUTIONS (e.g.; Incompatibilities):

Avoid heating products beyond temperatures required for normal installation. See installation instructions for proper installation procedures. If product chars or burns, immediately stop heating. Avoid inhaling any fumes which may be given off under such circumstances. Allow any vapors to disperse and ventilate before continuing work in the area.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/SYSTEM DESIGN INFORMATION:

Ensure adequate ventilation during installation.

VENTILATION:

Provide general or local exhaust ventilation systems

RESPIRATORY PROTECTION:

If installation occurs in a confined, unventilated area, NIOSH/MSHA-approved respirators are recommended.

EYE PROTECTION:

Use safety glasses with side shield or goggles to prevent contact with eyes, as appropriate to the given operation.

SKIN PROTECTION:

Avoid contact with molten material. Heat-resistant gloves are required if hot products are handled after installation. . If it is necessary to handle grossly overheated or fire-damaged products, wear natural rubber gloves to prevent possible contact with potentially corrosive inorganic acid residues operation.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

OSHA, ANSI, or NIOSH guidelines should be followed. If there is a danger of molten material contacting the skin or eyes, use eye/face protection and heat resistant gloves.

EXPOSURE GUIDELINES & LIMITS:

There are no established exposure limits for polymer mixtures.

The solder present in these products is encased in heat-shrinkable tubing. The solder consists of metals. Product testing has demonstrated that there is no exposure to metal fumes, even at temperatures where thermal degradation of the tubing occurs.

Cadmium (fumes)

	OSHA	Permissible Exposure Limit (PEL/TWA)	TWA	0.005 mg/m ³
	Canada	Permissible Exposure Value (PEV)		0.025 mg/m ³
	EU	Occupational Exposure Standard (OES)	TWA	0.004 mg/m³ (respirable fraction)
	Mexico	Time-Weighted Average (TWA)	TWA	0.050 mg/m ³
				0.2 mg/m3
Lead (fun	nes)			
	OSHA	Permissible Exposure Limit (PEL/TWA)	TWA	0.050 mg/m ³
	Canada	Permissible Exposure Value (PEV)	TWA	0.050 mg/m ³
	China	Occupational Exposure Level (OEL)	TWA	0.03 mg/m ³
	EU	Occupational Exposure Standard (OES)	TWA	0.15 mg/m ³
	Mexico	Occupational Exposure Level (OEL)	TWA	0.15 mg/m ³
Silver (fu	mes)			
			PEL	0.01 mg/m ³
	OSHA	Permissible Exposure Limit (PEL/TWA)	TWA	0.1 mg/m ³
	Canada	Permissible Exposure Value (PEV)	8-hour TWA	0.1 mg/m ³
			Short Term (15 Min.)	0.3 mg/m3
	EU	Occupational Exposure Standard (OES)	TWA	0.1 mg/m ³
	China	Occupational Exposure Standard (OES)	TWA	0.1 mg/m ³
	Mexico	Time-Weighted Average (TWA)	TWA	0.1 mg/m ³
Tin (fume	es)			
	OSHA	Permissible Exposure Limit (PEL/TWA)	TWA	2 mg/m ³
	Canada	Occupational Exposure Level (OEL)	8-hour TWA	2 mg/m ³
			Short Term (15 Min.)	4 mg/m ³
	China	Occupational Exposure Standard (OES)	PEL	2 mg/m ³

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ΕU Occupational Exposure Standard (OES) 8-hour TWA 2 mg/m^3

 4 mg/m^3 Short Term (15 Min.)

TWA – 8-Hour Time Weighted Average NE - Not Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Clear or blue transparent plastic sleeves with a ring of solder insert. **APPEARANCE:**

ODOR: No odor

ODOR THRESHOLD: Not Applicable PHYSICAL STATE: Not Applicable pH: Not Applicable **BOILING POINT:** Not Applicable **MELTING POINT:** Not Applicable FREEZING POINT: Not Applicable VAPOR PRESSURE (mmHg @ 20°C): Not Applicable **VAPOR DENSITY (AIR = 1):** Not Applicable **VOLATILITY (% by Volume)** Not Applicable SPECIFIC GRAVITY (H2O = 1): Not Applicable

EVAPORATION RATE (Butyl

acetate=1): Not Applicable

SOLUBILITY IN WATER: Insoluble

FLASH POINT: Not Applicable **AUTO-IGNITION TEMPERATURE:** Not Applicable LOWER EXPLOSIVE LIMIT (LEL): Not Applicable **UPPER EXPLOSIVE LIMIT (UEL):** Not Applicable **PARTITION COEFFICIENT:** Not Applicable VISCOSITY (centipoise @ 25° C): Not Applicable **DECOMPOSITION TEMPERATURE:** > 250°C (482°F)

SECTION 10: STABILITY AND REACTIVITY

STABILITY: This product is stable under normal conditions, at ambient temperature.

INCOMPATIBILITY (MATERIAL TO AVOID): None known.

HAZARDOUS DECOMPOSITION OR BY-See Section 5: FIRE FIGHTING MEASURES (Hazardous Combustion

PRODUCTS: Products).

HAZARDOUS POLYMERIZATION: Will not occur. No known polymerization conditions to avoid.

CONDITIONS TO AVOID: Avoid overheating of product.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Test Results Basis and Comments):

LD₅₀ (Oral, Rat): Not determined.

LC₅₀ (Inhalation, Rat): Not determined.

ROUTES OF ENTRY/EFFECTS OF ACUTE OVEREXPOSURE:

EYE CONTACT: Contact with the molten material may cause thermal burns.

SKIN CONTACT: Contact with the molten material may cause thermal burns. No harmful effects are expected from

skin absorption of this product.

Ingestion of this product is highly unlikely. There is insufficient information available on this material **INGESTION:**

to predict the effects from ingestion.

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INHALATION: Thermal degradation and combustion byproducts may be toxic and should not be inhaled. (See the

Thermal Degradation and Combustion Byproducts Section for more specific information.)

SUBCHRONIC/CHRONIC TOXICITY (Test Results and Comments):

IRRITANCY OF PRODUCT: This product is not expected to be a skin irritant. Overheating the product to charring or burning can produce vapours that may cause eye, skin, nose and throat irritation

SENSITIZATION TO MATERIAL: Not known.

CARCINOGENICITY: The solder present in these products is encased in heat-shrinkable tubing. The solder consists of metals. Product testing has demonstrated that there is no exposure to metal fumes, even at temperatures where thermal degradation of the tubing occurs.

National Toxicity Program (NTP):

Cadmium is listed as known to be a carcinogen.

Lead reasonably anticipated to be a human carcinogen

Occupational Safety & Health Administration (OSHA):

Cadmium is listed as a possible carcinogen.

Lead [1910.1025]

U.N. International Agency for Research on Cancer (IARC):

Lead and Lead compounds are listed as possible carcinogens.

Cadmium is listed as possible carcinogen.

REPRODUCTIVE TOXICITY: Not determined.

TERATOGENICITY: Not determined.

MUTAGENICITY: Not determined.

TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not determined.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE & DEGRADABILITY:

No data available on biodegradation.

BIO-ACCUMULATIVE POTENTIAL (Including Mobility):

No data available on bioaccumulation.

AQUATIC TOXICITY (Test Results & Comments):

No data available on aquatic toxicity.

Additional Information

No known effects on stratospheric ozone depletion.

Water Endangering Class (WGK): NA

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Treatment, storage, and disposal must be in accordance with applicable, federal, state,

METHOD: provincial, and local regulations.

HAZARDOUS WASTE Solder may contain lead, silver, cadmium or tin, depending on the type used. Heat-shrinkable

plastic sleeves may contain halogenated materials. Refer to the product literature for identification of halogen-containing products. Dispose of in accordance with national and

local regulations.

CLASS/CODE: US - Not applicable to material as manufactured for distribution into commerce.

CN – Not applicable to material as manufactured for distribution into commerce. EWC – Not applicable to material as manufactured for distribution into commerce.

Additional Information

Not Included – Dispose/Recycle as allowed by local jurisdiction for the end-of-life characteristics as-disposed.

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SECTION 14: TRANSPORT INFORMATION

GROUND - US-DOT/CAN-TDG/EU-ADR/APEC-ADR:

Proper Shipping Name Not Subject to HMR

Hazard Class NA ID Number NA Packing Group NA Labels NA

<u>AIRCRAFT - ICAO-IATA:</u>

Proper Shipping Name Not Subject to DGR

Hazard Class NA ID Number NA Packing Group NA Labels NA

VESSEL - IMO-IMDG:

Proper Shipping Name Not Subject to IMDG

Hazard Class NA ID Number NA Packing Group NA Labels NA

Additional Information

- Transportation must be in accordance with applicable, federal, state, provincial, and local regulations.
- Transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped. Statement of Jurisdictional/Modal Special Provision(s) required.
- Not restricted for any mode of international transport as finished goods.
- Not a Marine Pollutant as-shipped per IMO/IMDG.

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS:

All components are listed on the TSCA; EINECS/ELINCS; and DSL, unless noted otherwise below.

U.S. FEDERAL REGULATIONS:

TSCA Section 8b – Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b - Export Notification: If the product contains chemicals subject to TSCA Section 12b export notification they are listed below:

 Chemical
 CAS #

 Lead
 7439-92-1

 Cadmium
 7440-43-9

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Chemicals present in the product which could require reporting under the statute:

 Chemical
 CAS #

 Lead
 7439-92-1

 Cadmium
 7440-43-9

 Silver
 7440-22-4

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

If the product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III, they are listed below.

<u>Chemical</u>	<u>CAS #</u>	<u>% wt</u>
Lead	7439-92-1	32 - 93
Silver	7440-22-4	0 - 2
Cadmium	7440-43-9	0 - 18

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CERCLA SECTION 311/312 HAZARD CATEGORIES: Note that this product is exempt from these regulations.

Fire Hazard No
Pressure Hazard No
Reactivity Hazard No
Immediate Hazard No
Delayed Hazard Yes

STATE REGULATIONS (US):

California Proposition 65

The chemicals identified below exist in the product as distributed into commerce are known to the State of California to cause cancer, birth defects, or other reproductive harm:

STATE RIGHT-TO-KNOW:

<u>State</u>	<u>Chemical</u>	CAS#	<u>% Wt</u>
MA, NJ, PA	Lead	7439-92-1	32 - 93
MA, NJ, PA	Cadmium	7440-43-9	0 - 18

INTERNATIONAL REGULATIONS (Non-US):

Canadian Domestic Substance List (DSL)

All ingredients remaining in the product as distributed into commerce are included on the Domestic Substances List.

WHMIS Classifications

<u>Lead</u>: D2A Very Toxic Material Causing Other Toxic Effects

carcinogenicity: IARC group 2B; chronic toxic effect: saturnism; embryotoxicity in animals; injury during the

postnatal period in humans; reproductive toxicityin humans

<u>Cadmium</u>: D1A Very Toxic Material Causing Immediate and Serious Toxic Effects

Transportation of Dangerous Goods: class 6.1 group I D2A Very Toxic Material Causing Other Toxic Effects

carcinogenicity: IARC group 1, ACGIH A2; chronic toxic effect: nephrotoxicity; injury during the postnatal

period in animals

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all of the information required by the *Controlled Products Regulations*."

NPRI and Ontario Regulation 127/01

This product contains the following chemicals subject to the reporting requirements of Canada NPRI and/or Ont. Reg. 127/01:

<u>Chemical</u>	<u>CAS #</u>	<u>% Wt</u>
Cadmium	7440-43-9	0 - 18
Lead	7439-92-1	32 - 93
Silver	7440-22-4	0 - 2

European Inventory of Existing Commercial Chemical Substances (EINECS)

All ingredients remaining in the product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.

European Communities (EC) Hazard Classification according to directives 67/548/EEC and 1999/45/EC.

R-Phrases		<u>S-Phrases</u>	
Cadmium	R45, 26, 48/23/25, 62, 63, 68, 50/53	S53, 45, 60. 61	
Lead	R61 40 48	S20/21 22 23 24/25 27 28 36/37/39 62	

Additional Information

This product may be regulated under additional regulations and laws not identified above, such as for uses other than described or as-designed/as-intended by the manufacturer, or for distribution into specific domestic destinations.

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SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2). Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold.

MSDS/SDS PREPARATION INFORMATION:

Department Issuing SDS: TE Connectivity, Menlo Park **Contact:** Stefanie Gravano, Ph.D. Materials Manager

Tel: 001 650 361 2066 Email: stefanie.gravano@te.com

DATE OF ISSUE: May 30, 2014 SUPERSEDES: April 3, 2009

DISCLAIMER:

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The information presented herein was prepared at TE Connectivity by qualified technical personnel, and to our knowledge it is true and accurate. The information and recommendations are furnished for this product with the understanding that the purchaser/user will independently determine the suitability of the product for this purpose. The data do not constitute a warranty, expressed or implied, statutory or otherwise, nor are they a representation for which TE Connectivity assumes legal responsibility. The data are submitted for the user's information and consideration only. Any use of this product must be determined by the user to be in accordance with the applicable federal. State/Provincial, and local laws and regulations.

Users are advised that they may have additional disclosure obligations under other national and local laws. Users are advised to ensure that this information is brought to the attention of all employees, agents, and contractors handling this product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application and to establish safe handling and installation procedures. Distributors of this product are advised to forward this document, or the information contained herein, to every purchaser of this product.

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