



Connectors > Connector Backshells & Adapters > Ruggedized Backshells & Adapters



Connector General Specification Number: MIL-DTL-38999 Series I, MIL-DTL-38999 Series I/Class E,P,T, MIL-DTL-38999 Series I/Class E,T, MIL-DTL-38999 Series II/Class E,P,T, MIL-DTL-38999 Series II/Class E,T, MIL-DTL-38999 Series II/Class T

Backshell Material: Aluminum

Adapter Plating Material: Cadmium (AMS-QQ-P-416, Type II, Class 3)

Cable Diameter Range: 7.9 – 12.7 mm [ .313 – .5 in ]

Adapter Angle: 90

## Features

### Product Type Features

Termination Device Included	TR10AI
Pluggable I/O Accessory Type	Tinel-Lock Adapter
Adapter Angle	90
Termination Device Type	Side-Entry Tinel-Lock Ring, Tinel-Lock Adapter, Tinel-Lock Ring
Connector Shell Size	20, 21

### Body Features

Color	Olive Drab
Backshell Material	Aluminum
Adapter Plating Material	Cadmium (AMS-QQ-P-416, Type II, Class 3)
TE Adapter Code	41
Adapter Entry Size	10

### Termination Features

Overbraid Termination	Tinel-Lock Ring
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### Dimensions

Cable Entry Diameter	.2 – 15.9 mm [.01 – .63 in]
Cable Diameter Range	7.9 – 12.7 mm [.313 – .5 in]

### Usage Conditions



Salt Spray Resistance	500 Hr
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Operating Temperature Range	-65 – 175 °C[-85 – 347 °F]
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### Industry Standards

Connector Detail Specification Number	MS24266, MS27467, MS27468, MS27472, MS27473, MS27474, MS27479, MS27480, MS27481, MS27484, MS27497, MS27652, MS27653, MS27656, MS27661, MS27665
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### Other

Connector General Specification Number	MIL-DTL-38999 Series I, MIL-DTL-38999 Series I/Class E,P,T, MIL-DTL-38999 Series I /Class E,T, MIL-DTL-38999 Series II/Class E, P,T, MIL-DTL-38999 Series II/Class E,T, MIL-DTL-38999 Series II/Class T
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## Product Compliance

For compliance documentation, visit the product page on [TE.com](#)>

EU RoHS Directive 2011/65/EU	Not Compliant
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EU ELV Directive 2000/53/EC	Not Compliant
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China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
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EU REACH Regulation (EC) No. 1907/2006	<p>Current ECHA Candidate List: JUNE 2022 (224)</p> <p>Candidate List Declared Against: JAN 2022 (223)</p> <p>SVHC &gt; Threshold:</p> <p>Cd (.2% in Plating)</p> <p><b>Article Safe Usage Statements:</b>            Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Recycle if possible and dispose of the article by following all applicable governmental regulations relevant to your geographic location.</p>
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Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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Solder Process Capability	Not applicable for solder process capability
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#### Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

## Compatible Parts



TE Part # 173643-000  
RH-3960-1-TINEL-KIT-120V

## Also in the Series | RAYCHEM TXR



Ruggedized Backshells & Adapters  
(2071)



Screened Backshells & Adapters(1)

## Documents

### Product Drawings

[TXR41AB90-2010AI](#)

English

### CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_938453-000\\_O.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_938453-000\\_O.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_938453-000\\_O.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[5-1654025-5\\_sec6\\_Adapters](#)

English

[Circular Backshells](#)



English

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### Product Specifications

#### General Information Package for Tinel-Lock Adapters

English

#### Product Specification

English

**Braid termination using a Tinel Lock Ring installed using a resistance heater.**

French

**Braid termination using a Tinel Lock Ring installed using a resistance heater.**

English

#### PERFORMANCE SPECIFICATION Tinel-Lock Rings, Heat Recoverable for Braid Termination

English

#### ASSEMBLY GUIDE for Tinel -Lock Rings, Heat Recoverable for Braid Temination

English

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### Instruction Sheets

#### Instruction Sheet (U.S.)

English