

Certificate of Compliance

Certificate Number:

UL-US-2414510-0

Report Reference:

E346616-20240411

Issue Date:

2024-04-16

Issued to:

**TE Connectivity Germany GmbH
AMPERESTRASSE 12-14 BENSHEIM, Hessen 64625
Germany**

This certificate confirms that representative samples of:

ECBT2 - Connectors for Use in Data, Signal, Control and Power Applications - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

UL 1977, Edition 4, Issue Date 2022-12-07

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



David Piecuch
UL Mark Certification Program Manager



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CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2414510-0
Report reference 41TE346616-20240411
Date 2024-04-16

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
X-1563759-1, X-1563759-1 where X can be 1, 2, 3, 4, 5 or 6	Connectors
X-1564526-1, X-1564526-1 where X can be 1, 2, 3 or 4	Connectors



David Picuch
UL Mark Certification Program Manager

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Certificate of Compliance

Certificate Number:

UL-CA-2412000-0

Report Reference:

E346616-20240411

Issue Date:

2024-04-16

Issued to:

**TE Connectivity Germany GmbH
AMPERESTRASSE 12-14 BENSHEIM, Hessen 64625
Germany**

This certificate confirms that representative samples of:

ECBT8 - Connectors for Use in Data, Signal, Control and Power Applications Certified for Canada - Component

See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

CSA C22.2 No. 182.3, 2nd Ed., Issue Date: 2016-07, Revision Date: 2021-5

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

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CERTIFICATE OF COMPLIANCE

Certificate number UL-CA-2412000-0
Report reference 41TE346616-20240411
Date 2024-04-16

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Model	Product Description
X-1563759-1, X-1563759-1 where X can be 1, 2, 3, 4, 5 or 6	Connectors
X-1564526-1, X-1564526-1 where X can be 1, 2, 3 or 4	Connectors



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UL Mark Certification Program Manager

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File E346616

Project 4791127437

April 11, 2024

REPORT

on

COMPONENT - Connectors for Use in Data, Signal, Control and Power Applications
certified for Canada

TE Connectivity Germany GmbH
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DE

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component Connector, cat. nos.: X-1564526-1 where X can be 1, 2, 3 or 4 and X-1563759-1 where X can be 1, 2, 3, 4, 5 or 6.

GENERAL:

These devices are multi-pole connectors intended for factory assembly with the copper wire sizes as indicated in Ratings table below. The acceptability of combinations is determined by Underwriters Laboratories LLC.

The devices are identified as follows:

USR - Products designated USR have been investigated using US requirements as noted in the Test Record.

CNR - Products designated CNR have been investigated using Canadian requirements as noted in the Test Record.

RATINGS:

Note:

Cat. nos.		Poles (1)			Rating USR/CNR		Wire	
Male (Tab)	Female (Receptacle)	Config.	Nos.	Pos.	U [Vdc]	I [A]	AWG STR	
X-1564526-1	X-1563759-1	I	18	1-18	60	3.6	22-20	
		II	16	1-16	60	3.6	22	
			2	17-18	60	3.6	18	
		III	4	1		22.1	5.0	16
				2		22.1	6.0	
				8		22.1	1.0	
				12		22.1	0.1	
			1	14	22.1	1.0	20	
		13	3-7; 9-11; 13; 15-18	22.1	0.15	22		

1 - connectors can be used with following three configurations of poles: I=18 or II=(16+2) or III=(4+1+13)

Disconnecting Use: not for current interruption - see Sec. Gen. for required marking

NOMENCLATURE:

Series X-1564526-1 and X-1563759-1 are designated as follows:

X	-1563759-1
I	II

- I - Coding type and Color of isolating parts: Housing of Tab (male) or Cavity block of Receptacle (female)
- 1 - black color with coding type A
 - 2 - grey color with coding type B
 - 3 - green color with coding type C
 - 4 - blue color with coding type D
 - 5 - violet color with coding type E (only Cavity block of Receptacle)
 - 6 - red with coding type F (only Cavity block of Receptacle)
- II - Series designation:
- 1564526-1 - Tab (male)
 - 1563759-1 - Receptacle (Female)

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TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC.

Conditions of Acceptability - The following are among the considerations to be made when evaluating the device in the end-use product.

1. These connectors are not suitable for interrupting the flow of current by connecting or disconnecting the mating connector.

2. These devices have been subjected to the Temperature test with the rated currents and maximum temperature rise and recorded temperature (adjusted to 25°C ambient) values tabulated below:

Cat. nos.		Poles		Rating I [A]		Maximum Temperature °C	
Male (Tab)	Female (Receptacle)	Nos.	Pos.	USR	CNR	(Recorded) USR	(Rise) CNR
X-1564526-1	X-1563759-1	18	1-18	3.6	3.6	34.4	12.7
X-1564526-1	X-1563759-1	1	1	5.0	5.0	(1)	(1)
		1	2	6.0	6.0	28.9	3.1
		1	8	1.0	1.0	(1)	(1)
		1	12	0.1	0.1	(1)	(1)
		1	14	1.0	1.0	26.8	0.7
		13	3-7; 9-11; 13; 15-18	0.15	0.15	27.1	1.0

Note: 1 - See worst case results of pole 2 as representative using the same contacts with the same AWG.

3. These devices are provided with a polymeric part, employing insulating materials with properties as tabulated below at the minimum thickness; the suitability of these insulating materials based on the documented values shall be determined in the end-use application.

Cat. No.	Type	Insul. Material (#)	Part / cat. no. (1)	Measured Min. Thickness	Flame Class	H W I	H A I	RTI Elec	Max Operat. Temp, °C
X-1564526-1	Male (Tab)	A (1)	Housing/ [REDACTED]	0.4 mm	V-0	4	1	140	140
X-1563759-1	Female Receptacle		Cavity Block/ [REDACTED]	0.4 mm	V-0	4	1	140	140

Note:

1 - Insulating material [REDACTED] can be mixed with maximum 5% (1:20) of colorant (masterbatch) [REDACTED]

(#) - Code for Insulating Body Material.

A. [REDACTED]
 1. Dielectric strength (kV/mm): 23
 2. CTI: 3