

CERTIFICATE OF COMPLIANCE

Certificate Number 20140312-E258930
Report Reference E258930-20140312
Issue Date 2014-MARCH-12

Issued to: WENZHOU LONGHUA DAILY ELECTRON CO LTD
3 BLDG, PART C
XIXI INDUSTRY ZONE
HONGQIAO
YUEQING
ZHEJIANG 325608 CHINA


This is to certify that representative samples of POSITIONING DEVICES
See Addendum

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62275, Cable Management Systems – Cable Ties for Electrical Installations
CSA-C22.2 No. 62275-10, Cable Management Systems – Cable Ties for Electrical Installations,

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



CERTIFICATE OF COMPLIANCE

Certificate Number 20140312-E258930
Report Reference E258930-20140312
Issue Date 2014-MARCH-12

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

Stainless Steel Cable Tie

LH-SS-S, LH-SS-H, LH-SS-EH

Coated Stainless Steel Cable Tie

LH-SS-S-C, LH-SS-H-C



William R. Carney, Director, North American Certification Programs
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at www.ul.com/contactus



File E258930
Project 12SC04666

March 12, 2014

REPORT

on

Positioning Devices

Wenzhou Longhua Daily Electron Co Ltd
Yueqing, Zhejiang, China

Copyright © 2014 UL LLC

UL LLC authorizes the above named company to reproduce this Report only for purposes as described in the Conclusion, provided it is reproduced in its entirety.

DESCRIPTION

PRODUCT COVERED:

USL, CNL:
Metallic Cable Ties

Cat Nos:

Conventional Cable Tie Series - Stainless Steel
LH-SS-S
LH-SS-H
LH-SS-EH

Conventional Cable Tie Series - Polyester Coated Stainless Steel
LH-SS-S-C
LH-SS-H-C

GENERAL:

These devices are bands or lengths of material, employing a locking device, used for bundling or tying groups of cables together, securing and/or supporting the cables. When a Type 2S or Type 21S designation is indicated, the tie is suitable for providing primary support of flexible conduit, flexible tubing, or cable in accordance with the National Electrical Code and Canadian Electrical Code

These devices are manufactured in different widths and lengths to accommodate various bundle diameters.

MARKING:

See Section General and specific ratings in Table I

INSTRUCTIONS:

See Section General

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

Products designated USL have been investigated using requirements contained in the Standard for Cable Management Systems - Cable Ties for Electrical Installations, UL 62275, First Edition.

Products designated CNL have been investigated using requirements contained in the Standard for Cable Management Systems - Cable Ties for Electrical Installations, CSA C22.2 No. 62275-10.

MODEL NOMENCLATURE:

For the conventional Cable Ties only:

"AB-CD-E-F Length"

"AB" is replaced by the following:
LH refer's to the name of the factory

"CD" is replaced by one of the following:
SS refer to Stainless Steel material

"E" is replaced by one of the following:
S refer to the series of "890 N (200 LB)"
H refer to the series of "1500 N (350 LB)"
EH refer to the series of "2300 N (500 LB)"

"F", if applicable, is replaced by one of the following:
C indicates a polyester powder coating has been applied to the stainless steel

Length

The cable ties have been evaluated for use with a strap length between 4 and 60 inches.

RATINGS:

Cable ties covered by this Report have the following ratings:

TABLE I
RATINGS AND CLASSIFICATIONS

Metallic Cable Ties

Cat. No	Type Desig.	Bundle Diameter mm (in)		Loop Tensile Strength N (lbs)	Operating Temp °C		Minimum Install Temp °C	Indoor/ Outdoor	Plenum Rating	Materials (See Table II)	Ill.
		Min.	Max.		Min.	Max.					
LH-SS-S	2	15.0	483.0	890 (200)	-60 (-76)	300 (572)	-60 (-76)	Indoor/ Outdoor	AH-1	A	1
LH-SS-H	2	15.0	483.0	1500 (350)	-60 (-76)	300 (572)	-60 (-76)	Indoor/ Outdoor	AH-1	A	1
LH-SS-EH	2	15.0	483.0	2300 (500)	-60 (-76)	300 (572)	-60 (-76)	Indoor/ Outdoor	AH-1	A	1

Coated Metallic Cable Ties

Cat. No	Type Desig.	Bundle Diameter mm (in)		Loop Tensile Strength N (lbs)	Operating Temp °C		Minimum Install Temp °C	Indoor/ Outdoor	Plenum Rating	Materials (See Table II)	Ill.
		Min.	Max.		Min.	Max.					
LH-SS-S-C	21	15.0	483.0	890 (200)	-60 (-76)	300 (572)	-60 (-76)	Indoor/ Outdoor	AH-2	B	1
LH-SS-H-C	21	15.0	483.0	1500 (350)	-60 (-76)	300 (572)	-60 (-76)	Indoor/ Outdoor	AH-2	B	1

CONSTRUCTION DETAILS:

Materials: As noted in Table II below

Details and Nominal Dimensions: Reference Figure or Illustration as noted in Table II below

TABLE II

MATERIALS

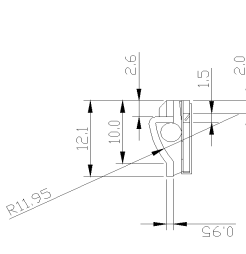
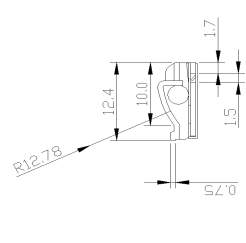
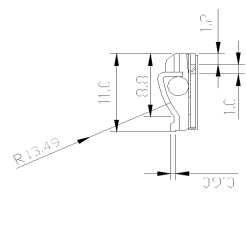
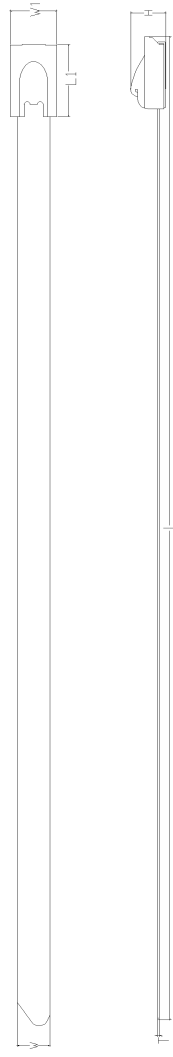
Code Used in Table I	Material	
	Manufacturer (File No.)	Grade Designation
A	N/A	Grade "304" "316" Stainless Steel
B	N/A	Grade "304" "316" Stainless Steel
	Yueqing Lantian Powder Coating Co., Ltd	Polyester powder coating "5001" in black color only - &

& - Not QMFZ2 Recognized

SS-H7

Tolerance unspecified
mm (inch)
XXXX ±0.1 (0.004)
XXX ±0.25 (0.010)
XX ±0.5 (0.02)
X ±1.0 (0.04)
ANGULAR ± 2

3.2/



Model Number	Size	W	W1	I	II	Bundle Diameter			
						Min	Max		
III SS S	4.6mm width	4.60	6.55	any from 100mm(4°)	10.30	4.70	0.25	15	(1 5.5)/3.14
III SS II	7.9mm width	7.90	10.00	any from 100mm(4°)	12.40	5.65	0.25	15	(1 5.5)/3.14
III SS III	12mm width	12.00	14.50	any from 100mm(4°)	17.00	6.10	0.25	15	(1 5.5)/3.14

REMARKS:
LH-SS-EH HEAD TYPE:



LH-SS

产品图

标记数量	更改单号	签名	日期
批准	标准化	审核	设计
阶段	标记	数量	重量
比例	Sainless steel Tube type		
共	页	第	页

Longhua Dolly Electron Co., Ltd.

TEST RECORD NO. 1

SAMPLES:

Samples of the Type 2 metallic and Type 21 coated metallic cable ties as indicated below and constructed as described herein, were submitted by the manufacturer for examination and test.

The table below shows the models tested. The results obtained on these models were considered representative of the products within a given series with lengths from 4 inches to 60 inches. The only difference in the construction of each model within a given series is the length.

	Material		
	Description	Manufacturer	Grade Designation
Uncoated			
LH-SS-S (4" and 60" lengths)	Stainless Steel	N/A	Grade 304 Grade 316
LH-SS-H (4" and 60" lengths)			
LH-SS-EH (4" and 60" lengths)			
Coated			
LH-SS-S (4" and 60" lengths)	Stainless Steel	N/A	Grade 304 Grade 316
LH-SS-H (4" and 60" lengths)	Polyester powder coating	Yueqing Lantian Powder Coating Co., Ltd	"5001" in black color only - &

& - Not a QMFZ2 Recognized Component

GENERAL:

The following tests were conducted.

Horizontal Burning; HB	UL62275 and UL 94 Clause 4.2.3
Identification Tests	UL 62275, Annex DVE

The test methods and results of the above tests have been reviewed and found in accordance with the requirements in the First Edition of UL 62275, Standard for Cable Management Systems - Cable Ties For Electrical Installations.

Limited testing was required to establish Listing in accordance with UL 62275 since the uncoated products covered under this Report were previously evaluated to the requirements in UL 1565 for Listing. It was only necessary to evaluate the applied coating to evaluate the coated cable ties.

Data Sheets, DS#2 and DS#3, may be found under Test Record 1 in Vol. 2 Sec. 1 of File E258930, dated 2014-03-08.

Test Record Summary:

The results of this investigation, including construction review and testing, indicate that the products evaluated comply with the applicable requirements in UL 62275, First Edition, Cable Management Systems - Cable Ties for Electrical Installations, dated February 26, 2010 including revisions through February 12, 2013 and, in CSA-C22.2 No. 62275-10, First Edition, Cable Management Systems - Cable Ties for Electrical Installations, dated February 26, 2010 and, therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

CONCLUSION

Samples of the products covered by this Report have been found to comply with the requirements covering the category and the products are found to comply with UL's applicable requirements. The description and test result in this Report are only applicable to the sample(s) investigated by UL and does not signify UL certification or that the product(s) described are covered under UL's Follow-Up Service Program. When covered under UL's Follow-Up Service Program, the manufacturer is authorized to use the UL Listing Mark on such products which comply with UL's Follow-Up Service Procedure and any other application requirements of UL LLC. The Listing Mark of UL LLC on the product, or the UL symbol on the product and the Listing Mark on the smallest unit container in which the product is packaged, is the only method to identify products investigated by UL to published requirements and manufactured under UL's Listing and Follow-Up Service.

This Report is intended solely for the use of UL and the Applicant for establishment of UL certification coverage of the product under UL's Follow-Up Service. UL retains all rights, title and interest (including exclusive ownership) in this Report and all copyright therein. Unless expressly authorized in writing by UL, the Applicant shall not disclose or otherwise distribute this Report or its contents to any third party or use this Report for any purpose other than to establish UL certification and become eligible for Follow-Up Service for the product(s) described in this Report. Any other use of this Report including without limitation, evaluation or certification by a party other than UL unless part of a certification scheme, is prohibited and renders the Report null and void. UL shall not incur any obligation or liability for any loss, expense, or punitive damages, arising out of or in connection with the use or reliance upon the contents of this Report to anyone other than the Applicant as provided in the agreement between UL and Applicant. Any use or reference to UL's name or certification mark(s) by anyone other than the Applicant in accordance with the agreement is prohibited without the express written approval of UL or any authorized licensee of UL. Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. UL shall not otherwise be responsible to anyone for the use of or reliance upon the contents of this Report.

Report by:

NICHOLAS COLAPIETRO
Senior Project Engineer