



File E212854

Vol 1

Auth. Page 1

Issued: 2001-04-17

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FOLLOW-UP SERVICE PROCEDURE
(TYPE R)

CABLE TRAYS
(CYNW, CYNW7)

Manufacturer: SEE ADDENDUM FOR MANUFACTURER LOCATIONS

Applicant: 2634371 (Party Site)
SCHNEIDER ELECTRIC SVERIGE AB
(100566-433) PO BOX 1009
61129 NYKOPING SWEDEN

Listee/Classified Co.: 2634371 (Party Site)
SAME AS APPLICANT
(100566-433)

This Follow-Up Service Procedure authorizes the above Manufacturer(s) to use the marking specified by UL LLC, or any authorized licensee of UL LLC, including the UL Contracting Party, only on products when constructed, tested and found to be in compliance with the requirements of this Follow-Up Service Procedure and in accordance with the terms of the applicable service agreement with UL Contracting Party and any applicable Service Terms. The UL Contracting Party for Follow-Up Services is listed on addendum to this Follow-Up Service Procedure ("UL Contracting Party"). UL Contracting Party and UL LLC are referred to jointly herein as "UL."

UL further defines responsibilities, duties and requirements for both Manufacturers and UL representatives in the document titled, "UL Mark Surveillance Requirements" that can be located at the following web-site: <http://www.ul.com/fus> and in the document titled "UL and Subscriber Responsibilities" that can be located at the following website: <http://www.ul.com/responsibilities>. Manufacturers without Internet access may obtain the current version of these documents from their local UL customer service representative or UL field representative. For assistance, or to obtain a paper copy of these documents or the applicable Service Terms, please contact UL's Customer Service at <http://www.ul.com/global/eng/pages/corporate/contactus>, select a location and enter your request, or call the number listed for that location.

The Applicant, the specified Manufacturer(s) and any Listee/Classified Co. in this Follow-Up Service Procedure must agree to receive Follow-Up Services from UL Contracting Party. If your applicable agreement is a Global Services Agreement ("GSA") with an effective date of January 1, 2012 or later and this Follow-Up Service Procedure is issued on or after that effective date, the Applicant, the specified Manufacturer(s) and any Listee/Classified Co. will be bound to a Service Agreement for Follow-Up Services upon the earliest by any Subscriber of use of the prescribed UL Mark, acceptance of the factory inspection, or payment of the Follow-Up Service fees which will incorporate such GSA, this Follow-Up Service Procedure and the Follow-Up Service Terms which can be accessed by clicking here: <http://www.ul.com/contracts/Terms-After-12-31-2011>. In all other events, Follow-Up Services will be governed by and incorporate the terms of your applicable service agreement and this Follow-Up Service Procedure.

It is the responsibility of the Lister/Classified Co. to make sure that only the products meeting the aforementioned requirements bear the authorized Marks of UL LLC, or any authorized licensee of UL LLC.

This Follow-Up Service Procedure contains information for the use of the above Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Manufacturer with the understanding that it will be returned upon request and is not to be copied in whole or in part.

This Follow-Up Service Procedure, and any subsequent revisions, is the property of UL and is not transferable. This Follow-Up Service Procedure contains confidential information for use only by the above named Manufacturer(s) and representatives of UL and is not to be used for any other purpose. It is provided to the Subscribers with the understanding that it is not to be copied, either wholly or in part unless specifically allowed, and that it will be returned to UL, upon request.

Capitalized terms used but not defined herein have the meanings set forth in the GSA and the applicable Service Terms or any other applicable UL service agreement.

UL shall not incur any obligation or liability for any loss, expense or damages, including incidental, consequential or punitive damages arising out of or in connection with the use or reliance upon this Follow-Up Service Procedure to anyone other than the above Manufacturer(s) as provided in the agreement between UL LLC or an authorized licensee of UL LLC, including UL Contracting Party, and the Manufacturer(s).

UL LLC has signed below solely in its capacity as the accredited entity to indicate that this Follow-Up Service Procedure is in compliance with the accreditation requirements.

William R. Carney
Director
North American Certification Program

LOCATION

(925519-001) 206377 (Party Site)
AB WIBE
PO BOX 401
SE-792 27 MORA SWEDEN
Factory ID: None
UL Contracting Party for above site is: UL AG

CLASSIFICATION MARK

COMPOSITION AND ELEMENT:

The Classification Marking shall consist of the following and shall appear on the product.

METAL CABLE TRAY
AS TO ITS SUITABILITY AS AN
EQUIPMENT GROUNDING CONDUCTOR ONLY
CONTROL NO. 26CB

MARKING:

The following symbol must be located adjacent to (left side of text) and as part of, the regular Classification Marking.



The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye.

PROCUREMENT:

The manufacturer may reproduce the mark or obtain it from a UL authorized supplier.

THIS PAGE IS TO BE REVISED BY FUS DEPARTMENT ONLY

Canadian Classification Mark Data Page

(FILE IMMEDIATELY AFTER AUTHORIZATION PAGE)

CLASSIFICATION MARKCOMPOSITION AND ELEMENT

The Canadian Classification Mark shall consist of the following and shall appear on the product.

METAL CABLE TRAY
IN ACCORDANCE WITH THE
STANDARD FOR METAL CABLE TRAY SYSTEMS
CSA-C22.2 NO. 126.1
<CONTROL NUMBER 263B>

MARKING

The following symbols shall be located adjacent to or in close proximity to the regular Classification Mark as shown above.

The Canadian/US symbol shall be used if both Canadian and US coverage is authorized:



The Canadian symbol shall be used if only Canadian coverage is authorized:



The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Mark is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible. Camera-ready artwork and relative proportions are available online at www.ul.com.

PROCUREMENT

The manufacturer may reproduce the Mark or obtain it from an authorized label supplier. Authorized label suppliers can be found online at www.ul.com.

THIS PAGE SHALL BE REVISED BY UL LABEL OPERATIONS ONLY

INDEX

Series	Section	Report Date
UNC - Cable Trays and Fittings, Models WN62, WN2, WN1, WHS60, WHS100, WHS150, KHA. UNC/CNC - Cable Trays and Fittings, Models KHZSP, KHZP, KHZ, KHZV.	1	2001-04-17
UNC/CNC - Galvanized steel Cable Trays, Types W1/40, W1/60, W3/40. UNC/CNC - Connector and Fitting Models W7/50, W7/60, W7/70, W7/100, W7/150, W7/200, W7/300, W7/400, W7/500, W7/600; W10/60, W10F/40; W12/40, W12/60, W13F/40, W13/60; W49/40, W49/60.	2	2007-02-20
*UNC/CNC - Defem Cable Trays Cat. Nos. Mesh Tray 422/60, Mesh Tray 120/60, Mesh Tray 320/60. UNC/CNC - Defem Joint Connectors Cat. Nos. Fitting B1, Fitting B2. CNC - Defem Cable Trays, Cat. Nos. Mesh Tray 53/45, Mesh Tray 120/60 and Mesh Tray 75x4/55.	3	1998-09-22

UNC - Indicates products evaluated to the requirements set forth in the Standard for Metallic Cable Trays, NEMA VE1-2009.

CNC - Indicated products evaluated to the requirements set forth in the Standard for Metallic Cable Trays, CSA C22.2 No. 126.1-09.

DESCRIPTION

PRODUCT COVERED:

* UNC/CNC - Defem Cable Trays Cat. Nos. Mesh Tray 422/60, Mesh Tray 220/60, Mesh Tray 320/60.

UNC/CNC - Defem Joint Connectors Cat. Nos. Fitting B1, Fitting B2.

CNC - Defem Cable Tray, Cat. Nos. Mesh Tray 53/45, Mesh Tray 120/60 and Mesh Tray 75x4/55.

ENGINEERING CONSIDERATIONS:

This product is classified as to its suitability as an equipment grounding conductor only. Cable Trays are intended for assembly in the field and for use in accordance with the National Electrical Code.

UNC - Indicates evaluation to the requirements set forth in the Standard for Metal Cable Tray Systems, NEMA VE1-2009.

CNC - Indicates evaluation to the requirements set forth in the Standard for Metal Cable Tray Systems, CSA C22.2 No. 126.1-2009.

CONSTRUCTION DETAILS:

Details of construction are given in the following illustrations and figures and their related indices. These descriptions do not cover the complete product. They are limited to describing the grounding path through these trays with respect to cross-sectional area.

Material - The Defem cable trays are formed of zinc plated steel wires having a circular cross-section. The Defem joint connectors are formed from zinc plated steel.

Marking - Classified Company's name or trademark appear on the cable tray. Tray is marked on the outer surface with the minimum total cross-sectional area of metal in the grounding members, "Minimum Area -- SQ. IN." The area markings shall conform to one of the following values shown below.

Min Area Square Inches (mm²)
Steel Cable Trays

0.20 (129)
0.40 (258)
0.70 (451.5)
1.00 (645)
1.50 (967.5)

Each splice connector is marked with the Listee's name or trademark.

Installation instructions - Shown in Illustrations provided with smallest shipping carton.

The UL Representative shall determine the area and verify the correct marking by measuring the diameter of the longitudinal members and calculating the total cross-sectional area of the members.

Part No.	Wire Diameter, mm (Inches)	Total cross-sectional area, Sq. mm (sq. in) of longitudinal members
Mesh Tray 75x4/55	4.0 (0.157)	75.39 (0.117)
Mesh Tray 53/45	4.0 (0.157)	75.39 (0.117)
Mesh Tray 120/60	5.0 (0.197)	117.80 (0.0.183)
Mesh Tray 220/60	5.0 (0.197)	157.08 (0.243)
Mesh Tray 320/60	5.0 (0.197)	196.36 (0.304)
Mesh Tray 422/60	6.0 (0.236)	311.01 (0.482)

For products marked CNC, the following shall be marked on each straight length of cable tray in addition to the marking specified above:

- the word "Ventilated" or "Nonventilated", as applicable.
- the rated load/span as shown in table 1 below.
- the type of material, such as stainless steel (including type), aluminum, etc; and if carbon steel, type 1 (hot-dip galvanized), type 2 (mill galvanized), or type 3 (electrodeposited zinc), as applicable. If the manufacturer's catalogue number marked on the product would readily lead the user to the required information published by the manufacturer, this marking is not mandatory.
- warning label that reads, "WARNING! DO NOT USE AS A WALKWAY, LADDER, OR SUPPORT FOR PERSONNEL. USE ONLY AS A MECHANICAL SUPPORT FOR CABLES, TUBING, AND RACEWAYS."

TABLE 1

Cat. No.	Span, m (ft)	Load Rating, kg/m (lbf/ft)
Mesh Tray 53/45	2 (6.5)	27.5 (18.6)
Mesh Tray 75x4/55	2 (6.5)	27.5 (18.6)
Mesh Tray 120/60	2 (6.5)	85.5 (58.0)
Mesh Tray 220/60	2 (6.5)	68.7 (46.6)
Mesh Tray 320/60	2 (6.5)	74.8 (50.8)
Mesh Tray 422/60	2 (6.5)	122.2 (82.9)

DEFEM CABLE TRAYS, CAT. NO. Mesh Tray 53/45

(REPRESENTS CAT. NOS. Mesh Tray 422/60, Mesh Tray 75x4/55, Mesh Tray 120/60, Mesh Tray 220/60, Mesh Tray 320/60).

DEFEM JOINT CONNECTORS,

CAT. NO. Fitting B1, Fitting B2.

FIG. 1 (M98-12994)

General - Refer to Ill. 1 for further details.

1. Defem Cable Tray, Cat. No. Mesh Tray 53/45 - Overall 2 in. (50.8 mm) high, 3 in. (76.2) wide, length varies. Constructed of two longitudinal wires on sides and two on the bottom, each wire measuring 0.157 in. (4 mm) in diameter.
2. Defem Cable Tray, Cat. No. Mesh Tray 422/60 (not shown) similar to Cat. No. MM2-3-99, overall 2 in. (50.4 mm) high, 17 in. (431.8 mm) wide, length varies. Constructed of two longitudinal wires on sides and seven on the bottom, each wire measuring 0.236 in. (6 mm) in diameter.
3. Defem Cable Tray, Cat. No. Mesh Tray 75x4/55 (not shown) similar to Cat. No. MM2-3-99, overall 2 in. (50.4 mm) high, 3 in. (76.2 mm) wide, length varies. Constructed of two longitudinal wires on sides and two wires on the bottom, each wire measuring 0.157 in. (4 mm) in diameter.
4. Defem Cable Tray, Cat. No. Mesh Tray 120/60 (not shown) similar to Cat. No. MM2-3-99, overall 2 in. (50.4 mm) high, 5 in. (127 mm) wide, length varies. Constructed of two longitudinal wires on sides and two on the bottom, each wire measuring 0.197 in. (5 mm) in diameter.
5. Defem Cable Tray, Cat. No. Mesh Tray 220/60 (not shown) similar to Cat. No. MM2-3-99, overall 2 in. (50.4 mm) high, 9 in. (228.6 mm) wide, length varies. Constructed of two longitudinal wires on sides and four on the bottom, each wire measuring 0.197 in. (5 mm) in diameter.
6. Defem Cable Tray, Cat. No. Mesh Tray 320/60 (not shown) similar to Cat. No. MM2-3-99, overall 2 in. (50.4 mm) high, 17 in. (431.8 mm) wide, length varies. Constructed of two longitudinal wires on sides and six on the bottom, each wire measuring 0.197 in. (5 mm) in diameter.
7. Joint Connector - Plated steel. Measures 0.0985 in. (2.5 mm) thick, 3-1/8 in. (79.3 mm) long by 1-5/8 in. (41.2 mm) wide. Provided with opening for securing with bolt and nut.
8. Back Plate - Plated steel. Measures 0.0965 in thick, 1-3/8 in. (35 mm) long by 1 in. (25.4 mm) wide. Provided with opening for securing with bolt and nut.
9. Hardware - Plated steel 1/4-20 by 1 in. (25.4 mm) integral bolt, 1/4 in. serrated flange nut.

GENERAL

PRODUCT COVERED:

UNC/CNC - Metal Cable Tray Systems

FACTORY LOCATION AND IDENTIFICATION:

Location	Identifier
925519-001	None

DEFINITIONS:

Products designated UNC have been investigated using requirements contained in the Standard for Metal Cable Tray Systems, NEMA VE1-2009.

Products designated CNC have been investigated using requirements contained in the Standard for Metal Cable Tray Systems, CSA C22.2 No. 126.1-09.

TEST RECORD NO. 4

The products described in the file have been reviewed and determined to be compliant with the requirements published in CSA C22.2 No. 126.1-09, Metal Cable Tray Systems, Third Edition dated September 2009.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in CSA C22.2 No. 126.1-09, Metal Cable Tray Systems, Third Edition dated September 2009, and therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Linda Gagliardi
Engineering Coordinator

Eric Achille
Engineer Project Associate

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

TEST RECORD NO. 4

The products described in the file have been reviewed and determined to be compliant with the requirements published in CSA C22.2 No. 126.1-09, Metal Cable Tray Systems, Third Edition dated September 2009.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in CSA C22.2 No. 126.1-09, Metal Cable Tray Systems, Third Edition dated September 2009, and therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Linda Gagliardi
Engineering Coordinator

Eric Achille
Engineer Project Associate

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TEST RECORD NO. 6

The products described in the file have been reviewed and determined to be compliant with the requirements published in CSA C22.2 No. 126.1-09, Metal Cable Tray Systems, Third Edition dated September 2009.

Test Record Summary:

The results of this investigation indicate that the products evaluated comply with the applicable requirements in CSA C22.2 No. 126.1-09, Metal Cable Tray Systems, Third Edition dated September 2009, and therefore, such products are judged eligible to bear UL's Mark as described on the Conclusion Page of this Report.

Test Record by:

Linda Gagliardi
Engineering Coordinator

Eric Achille
Engineer Project Associate

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