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Packaging of Master Bundles for Steel Rigid Conduit, Intermediate Metal Conduit (IMC), and Electrical Metallic Tubing

NEMA

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION ■ 2101 L STREET, N.W., WASHINGTON, D.C. 20037

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RN 2

Packaging of Master Bundles for Steel Rigid Conduit, Intermediate Metal Conduit (IMC), and Electrical Metallic Tubing (EMT)

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FOREWORD

This Standards Publication is intended to recommend sizes for master bundles of steel electrical conduit in order to provide a safe, manageable package for bulk handling of the product, and to facilitate tracking of the number of pieces being handled by the distributor or others dispensing and storing the product.

The sizes listed provide for nominal bundle weights of 2,000 lbs. except in the larger diameter sizes of IMC and EMT, where the weight per unit volume of the product dictates a lesser number of pieces (and weight) in order to maintain practical bundle dimensions. The 2,000 lb. nominal bundle weight is intended to be consistent with the equipment commonly available for handling the product. However, it is the responsibility of those handling the product to determine the compatibility of their handling equipment with master bundles as specified in this document.

In the preparation of this standards publication, the input of users and other interested parties has been sought and evaluated. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA product subdivision by contacting the:

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SCOPE

This Standards Publication covers recommendations for the size and banding of master bundles of Galvanized Steel Rigid Conduit, Intermediate Metal Conduit (IMC), and Electrical Metallic Tubing (EMT), in 10 feet (10') lengths only.

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PACKAGING OF MASTER BUNDLES FOR STEEL RIGID CONDUIT, INTERMEDIATE METAL CONDUIT (IMC), AND ELECTRICAL METALLIC TUBING (EMT)

Section 1

SIZE OF MASTER BUNDLE

1.1 NUMBER OF PIECES

1.1.1 Galvanized Rigid Steel Conduit (GRC)

The recommended number of pieces of Galvanized Rigid Steel Conduit (10 foot lengths) in a master bundle of each trade size, ½ inch through 6 inch, is shown in Table 1-1.

1.1.2 Steel Intermediate Metal Conduit (IMC)

The recommended number of pieces of Steel Intermediate Metal Conduit (10 foot lengths) in a master bundle of each trade size, ½ inch through 4 inch, is shown in Table 1-2.

1.1.3 Electrical Metallic Tubing (EMT)

The recommended number of pieces of Electrical Metallic Tubing (10 foot lengths) in a master bundle of each trade size, ½ inch through 4 inch, is shown in Table 1-3.

Authorized Engineering Information 7-22-1987.

Table 1-1
GALVANIZED RIGID STEEL CONDUIT
MASTER BUNDLE QUANTITY

Trade Size	Number of Pieces	Total Feet	Nominal Weight Per Bundle[1]
½ "	250	2500	2060
¾ "	200	2000	2170
1 "	125	1250	2010
1¼ "	90	900	1960
1½ "	80	800	2100
2 "	60	600	2100
2½ "	37	370	2070
3 "	30	300	2180
3½ "	25	250	2200
4 "	20	200	2060
5 "	15	150	2100
6 "	10	100	1840

[1]Nominal weight of bundles are based on nominal conduit dimensions as specified in UL 6, *Standard for Rigid Metal Electrical Conduit*, October 1983*.
Authorized Engineering Information 7-22-1987.

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Table 1-2
STEEL INTERMEDIATE METAL CONDUIT
MASTER BUNDLE QUANTITY

Trade Size	Number of Pieces	Total Feet	Nominal Weight Per Bundle[1]
½ "	350	3500	2170
¾ "	250	2500	2110
1 "	170	1700	2030
1¼ "	135	1350	2130
1½ "	110	1100	2130
2 "	80	800	2050
2½ "	37	370	1630
3 "	30	300	1630
3½ "	24	240	1510
4 "	24	240	1680

[1]Nominal weights of bundles are based on nominal conduit dimensions as specified in UL 1242, *Standard for Intermediate Metal Conduit*, 1983*. Authorized Engineering Information 7-22-1987.

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Table 1-3
STEEL ELECTRICAL METALLIC TUBING
MASTER BUNDLE QUANTITY

Trade Size	Number of Pieces	Total Feet	Nominal Weight Per Bundle[1]
½ "	700	7000	2090
¾ "	500	5000	2288
1 "	300	3000	2020
1¼ "	200	2000	2010
1½ "	150	1500	1740
2 "	120	1200	1780
2½ "	61	610	1320
3 "	51	510	1340
3½ "	37	370	1290
4 "	30	300	1180

[1]Nominal weights of bundles are based on nominal conduit dimensions as specified in UL 797, *Standard for Electrical Metallic Tubing*, October 1983*. Authorized Engineering Information 7-22-1987.

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Section 2
CONSTRUCTION OF BUNDLES

2.1 CONSTRUCTION OF BUNDLES

Master bundles should be secured with at least two bands of steel strapping meeting the requirements of ASTM D3953-83*, *Specifications for Flat Steel Strap and Connectors.*

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The purpose of NEMA Standards, their classification and status, are set forth in certain clauses of the NEMA *Standardization Policies and Procedures* manual and are referenced below.

Purpose of Standards

National Electrical Manufacturers Association Standards are adopted in the public interest and are designed to eliminate misunderstandings between the manufacturer and the purchaser and to assist the purchaser in selecting and obtaining the proper product for its particular need. Existence of a National Electrical Manufacturers Association Standard does not in any respect preclude any member or nonmember from manufacturing or selling products not conforming to the standard. *(Standardization Policies and Procedures, p. 1)*

Definition of a Standard

A standard of the National Electrical Manufacturers Association defines a product, process, or procedure with reference to one or more of the following: nomenclature, composition, construction, dimensions, tolerances, safety, operating characteristics, performance, rating, testing, and the service for which they are designed.

(Standardization Policies and Procedures, p. 2)

Dimensions

Where dimensions are given for interchangeability purposes, alternate dimensions satisfying the other provisions of the standards publication may be capable of otherwise equivalent performance.

(Standardization Policies and Procedures, p. 9)

Classes of Standards

National Electrical Manufacturers Association Standards are of two classes:

1. NEMA Standard, which relates to a product commercially standardized and subject to repetitive manufacture, which standard has been approved by at least 90 percent of the members of the Subdivision eligible to vote thereon;
2. Suggested Standard for Future Design, which may not have been regularly applied to a commercial product, but which suggests a sound engineering approach to future development, which standard has been approved by at least two-thirds of the members of the Subdivision eligible to vote thereon.

(Standardization Policies and Procedures, pp. 8 & 17)

Authorized Engineering Information

Authorized Engineering Information consists of explanatory data and other engineering information of an informative character not falling within the classification of NEMA Standard or Suggested Standard for Future Design, which standard has been approved by at least two-thirds of the members of the Subdivision eligible to vote on the standard.

(Standardization Policies and Procedures, pp. 8 & 17)

Official Standards Proposal

An Official Standards Proposal is an official draft of a proposed standard which is formally recommended to an outside organization(s) for consideration, comment, and/or approval, and which has been approved by at least 90 percent of the members of the Subdivision eligible to vote thereon.

(Standardization Policies and Procedures, pp. 8 & 17)

Identification of Status

Standards in NEMA Standards Publications are identified in the foreword or following each standard as "NEMA Standard" or "Suggested Standard for Future Design." These indicate the status of the standard. These words are followed by a date which indicates when the standard was adopted in its present form by the Association.

The material identified as "Authorized Engineering Information" and "Official Standards Proposal" is designated similarly.

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STEEL RIGID CONDUIT AND ELECTRICAL METALLIC TUBING SECTION OF THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

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