



Document Title:
Cooper Compression Connectors, C-Shape

Document Type:
Material Specifications

Document No.:
4350.199

Originating Department:
Distribution Standards & Materials

Version:
1

Effective Date:
Aug 17, 2023

Shared documents: T&S T&D T&TM D&TM Luma Engineering

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Document History

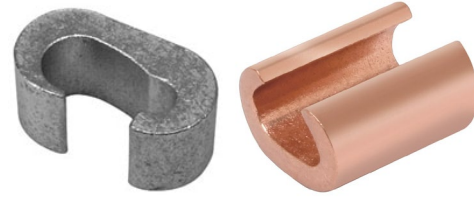
Date	Revision Comments
Mar. 03, 2022	PREPA to LUMA Format for Items 002-03893, 03919, 08793, 08785, and 09544.
Jun. 07, 2022	Initial Release
Aug. 09, 2023	General format modifications. Document changed as shared between T&D for Items 002-83016, 03893, 03919, 08793, 08785, 83017, 83018, 83019, 83020, 09544, 83022, 83023, and 83024.

Warehouse Catalog #	Version	Date
002-83016	5	8/09/2023
002-03893	5	8/09/2023
002-03919	5	8/09/2023
002-08793	5	8/09/2023
002-08785	5	8/09/2023
002-83017	5	8/09/2023
002-83018	5	8/09/2023
002-83019	5	8/09/2023
002-83020	5	8/09/2023
002-09544	5	8/09/2023
002-83022	5	8/09/2023
002-83023	5	8/09/2023
002-83024	5	8/09/2023



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Copper Compression Connectors, C-Shape

1. Introduction

This is a general specification that covers the minimum requirements for copper compression connectors, C-Shape, used in the distribution and transmission system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general electrical and mechanical characteristics of the equipment/material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this equipment/material to LUMA on previous orders will not have to furnish samples at bid opening. The equipment/material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Literature

Descriptive and technical literature must be supplied by the vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of LUMA Energy's approval of the equipment/material shall be supplied by the vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Compatible with

- 5.1. For compatible manufacturer and models see Table 1.
- 5.2. These models are examples of the equipment/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

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6. Packaging

All equipment/material shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

7.1. Standard package: Fifty (50) units per box or as requested by LUMA Energy.

8. Acceptance Criteria

8.1. Test required: certified by external laboratories.

8.2. Latest applicable codes, standards, and other regulations:

a. UL 486A-486B: for Safety Wire Connectors.

b. RoHS Compliance

9. Description

9.1. C-Shape copper compression connectors are used for making taps or parallel copper connections. Also used for grounding application on electrical distribution and transmission system.

9.2. Must be used for copper-to-copper connections.

9.3. The connector must be made of pure copper and heavy wall construction to insure contact between copper conductors.

9.4. C-Shape connector may be electro tin plated.

9.5. Must be UL listed for 90°C, and 35 kV.

9.6. Each connector and package must have the catalog number, conductor range, and installation die information clearly printed on it.

9.7. Must be designed to be crimped with manual or hydraulic crimping tool.

9.8. For length, conductor size range per model (Run/Tap), and die index see Table 1.

10. Inspection

The acceptance of any equipment/material shall in no way relieve the vendor from his responsibility to meet all the requirements of this specification, and it would not prevent subsequent rejection if such equipment/material were found later to be defective.

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11. Proposal Information

11.1. Submitted proposals must include:

- a. Technical information
- b. Table of Compliance completed by the bidder with reference (see Appendix 1).

12. Table 1: Warehouse and Asset Suite Identification Number

Warehouse Catalog #	Asset Suite #	Compatible Manufacturer	Model	Length	Run	Tap	Die Index / Die Set
* 002-83016	83016	Burndy	YC8C8	0.5 in (1.27 cm)	8sol. - 8str.	10sol. - 8str.	162 W162, U162
* 002-03893	58181	Burndy	YC4C6	0.57 in (1.45 cm)	6sol. - 4str.	6sol. - 6str.	BG or 5/8 WBG, UBG
* 002-03919	55420	Burndy	YC4C4	0.57 in (1.45 cm)	6sol. - 4str.	6sol. - 4str.	BG or 5/8 WBG, UBG
* 002-08793	56167	Burndy	YC2C4	0.67 in (1.70 cm)	4sol. - 2str.	8sol. - 4str.	C WC, UC
* 002-08785	54265	Burndy	YC2C2	0.67 in (1.70 cm)	2sol. - 2str.	2sol. - 2str.	C WC, UC
* 002-83017	83017	Burndy	YC26C2	0.92 in (2.34 cm)	1/0str. - 2/0str.	8sol. - 2str.	E or O UE, UO
* 002-83018	83018	Burndy	YC26C26	0.92 in (2.34 cm)	1/0str. - 2/0str.	1/0str. - 2/0str.	E or O UE, UO
* 002-83019	83019	Burndy	YC28C2	1.07 in (2.72 cm)	3/0sol. - 4/0str.	6sol. - 2str.	F or D3 UF or UD3
* 002-83020	83020	Burndy	YC28C26	1.07 in (2.72 cm)	3/0sol. - 4/0str.	1/0str. - 2/0str.	F or D3 UF or UD3
* 002-09544	54369	Burndy	YC28C28	1.07 in (2.72 cm)	3/0sol. - 4/0str.	3/0sol. - 4/0str.	F or D3 UF, UD3
* 002-83022	83022	Burndy	YCHC34TC34	1.25 in	4/0 - 500 MCM	4/0 - 500 MCM	1104 U1104
* 002-83023	83023	Burndy	YCHC34TC29	1.0 in	4/0 - 500 MCM	#2 - 250 MCM	1104 U1104
* 002-83024	83024	Burndy	YCHC34TC2	1.0 in	4/0 - 500 MCM	#6sol. - #2str.	1104 U1104

* All items are also used in the 38kV transmission system.

— End of Specification —

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**Copper Compression Connectors,
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Appendix

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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P/F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4350.199).		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (ANSI, UL).		
3	Type	C-Shape, copper compression line tap connector for copper conductors.		
4	Material	Copper, may be electro tin plated.		
5	Product Requirement	Connector must be made of pure copper and heavy wall construction.		
		Must be UL listed for 90°C and 35 KV.		
		Shall be clearly and permanent marked with model number, run conductor size range, tap conductor size range, and installation die index number.		
		To be installed with standard tooling such as Burndy MD6/7, Y35, Y45, and 750 series.		
6	Conductor Size Range:	As per Table 1		











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Final Audit Report

2023-08-17


Created:	2023-08-10
By:	Wanda Ocasio (wanda.ocasio@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAAdW51k22qkNRqBbMBI1DkOragROQu_qzu

"4350.199 Copper Compression Connectors C-Shape (8-9-23)" History


-  Document created by Wanda Ocasio (wanda.ocasio@lumapr.com)
2023-08-10 - 5:52:43 PM GMT
-  Document emailed to Miguel Rios (miguel.rioslopez@lumapr.com) for signature
2023-08-10 - 6:00:35 PM GMT
-  Email viewed by Miguel Rios (miguel.rioslopez@lumapr.com)
2023-08-10 - 6:53:00 PM GMT
-  Document e-signed by Miguel Rios (miguel.rioslopez@lumapr.com)
Signature Date: 2023-08-10 - 6:53:38 PM GMT - Time Source: server
-  Document emailed to Rene Maldonado (rene.maldonado@lumapr.com) for signature
2023-08-10 - 6:53:39 PM GMT
-  Email viewed by Rene Maldonado (rene.maldonado@lumapr.com)
2023-08-11 - 1:15:33 PM GMT
-  Document e-signed by Rene Maldonado (rene.maldonado@lumapr.com)
Signature Date: 2023-08-15 - 6:00:37 PM GMT - Time Source: server
-  Document emailed to Rafael Torres-Martinez (rafael.torresm@lumapr.com) for signature
2023-08-15 - 6:00:38 PM GMT
-  Email viewed by Rafael Torres-Martinez (rafael.torresm@lumapr.com)
2023-08-16 - 7:24:15 PM GMT
-  Document e-signed by Rafael Torres-Martinez (rafael.torresm@lumapr.com)
Signature Date: 2023-08-16 - 7:24:28 PM GMT - Time Source: server

 Document emailed to ricardo.castro@lumapr.com for signature


2023-08-16 - 7:24:30 PM GMT

 Email viewed by ricardo.castro@lumapr.com

2023-08-17 - 5:35:21 PM GMT

 Signer ricardo.castro@lumapr.com entered name at signing as Ricardo Castro Gómez

2023-08-17 - 5:35:41 PM GMT

 Document e-signed by Ricardo Castro Gómez (ricardo.castro@lumapr.com)

Signature Date: 2023-08-17 - 5:35:43 PM GMT - Time Source: server

 Agreement completed.

2023-08-17 - 5:35:43 PM GMT