

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20141011-E13288  
**Report Reference** E13288-19800116  
**Issue Date** 2014-OCTOBER-11

**Issued to:** TYCO ELECTRONICS CORP  
2901 FULLING MILL RD  
MIDDLETOWN PA 17057-3170

**This is to certify that  
representative samples of**

**WIRE CONNECTORS AND SOLDERING LUGS**  
Component wire connectors, Type "Open-Barrel Ring and Spades" –  
Series F Crimp

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

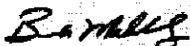
**Standard(s) for Safety:** UL 486A-486B WIRE CONNECTORS  
**Additional Information:** See the UL Online Certifications Directory at  
[www.ul.com/database](http://www.ul.com/database) for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's  
Certification and Follow-Up Service.

Recognized components are incomplete in certain constructional features or restricted in performance  
capabilities and are intended for use as components of complete equipment submitted for investigation rather  
than for direct separate installation in the field. The final acceptance of the component is dependent upon its  
installation and use in complete equipment submitted to UL LLC.

Look for the UL Certification Mark on the product.

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



Bruce Mahrenholz, Assistant Chief Engineer, Global Inspection and Field Services

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](http://www.ul.com/contactus)



## DESCRIPTION

## PRODUCT COVERED:

Component wire connectors, Type "Open Barrel Ring and Spades" - **Series F Crimp** (Refer to Ill. 1 for specific cat. nos.).

## GENERAL CHARACTER AND USE:

These devices are terminal connectors having a wire range as stated in the manufacturer's catalog, Ill. 1, (Cat. No. 4070) utilizing stranded copper wire only.

## ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE USE):

These devices are for use where acceptability of the combination has been judged by Underwriters Laboratories Inc.

## Conditions of Acceptability -

1. These devices are for factory assembly using this manufacturer's automatic power tooling which forms the wire entry opening and crimps the conductors to the terminal in one operation.
2. The plated steel connectors covered in this report are for use only where steel is acceptable for current-carrying parts.
3. Marking - Electrical ratings, including "CU", crimp instructions, wire strip length, etc., are not provided. Such markings may be required in the end-equipment.

## CONSTRUCTION DETAILS:

Marking - Each connector is marked with the manufacturer's name or trademark. The smallest unit cartons or reels are marked with:

1. The manufacturer's name or trademark.
2. Wire range (optional).
3. Cat. No. - Leading and lagging zeroes of cat. nos. and series designations are optional.

File E13288

Vol. 1  
Vol. 40

Sec. 39  
Sec. 1  
and Report

Page 2

Issued: 1980-01-16  
Revised: 2014-10-08

TYPE OPEN BARREL RING  
AND SPADE CONNECTOR  
**SERIES F CRIMP**

General- For specific details as to dimensions, materials, and wire range for this manufacture's type "Open Barrel Ring and Spade Connector" refer to Ill. 1, manufacturer's Cat. No. 4070 revised November, 1975.