

File E13288
Project 93ME30637

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REPORT

on

COMPONENT - WIRE CONNECTORS

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Tyco Electronics Corp.
Middletown, PA

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and Report

D E S C R I P T I O NPRODUCT COVERED:

USR, Component pressure splicing connectors Cat. Nos. 485043-1, 485043-2, 63625-1, 63130-2, 63130-3, 62754-1,-2 60372-1, 62759-1, 61299-1, 61299-2, 61299-3, **62516-2**.

RATINGS:

Cat. No.	Wire Combination Ratings
61299-1	(1) 12AWG (65 strands) + (1) 18AWG (16 strands), (1) 12AWG (65 strands) + (2) 18AWG (16 strands), (4) 16AWG str, (1) 12AWG (65 strands) + (1) 14AWG str, (1) 12AWG (65 strands) + (1) 16AWG str
61299-2, 61299-3	(4) 16AWG str, (1) 12AWG str (65 str) + (1) 14AWG str, (1) 12AWG str (65 str) + (1) 16AWG str, (3) 16AWG str, (2) 16AWG str + (2) 18AWG str, (2) 14AWG str + (1) 18AWG str
60372-1	(1) 24AWG str + (2) 22AWG str, (2) 26AWG str + (2) 24AWG str, (1) 24AWG str + (2) 24AWG sol, (1) 18AWG str + (1) 24AWG sol
62759-1	(1) 24AWG str + (1) 22AWG sol, (1) 24AWG str + (1) 22AWG str, (1) 24AWG str + (1) 22AWG tinned str, (2) 24AWG str, (3) 24AWG str, (2) 22AWG str, (1) 24AWG str + (1) 24AWG sol, (1) 20AWG str + (1) 22AWG sol, (1) 22AWG str + (1) 22AWG sol
485043-1, 485043-2	1 No. 18 Str. with 1 No. 18 Sol, 2-5 No. 18 Str, 2 No. 18 Str with 1 No. 16 Str, 1 No. 18 Str. with 1 No. 16 Str, 3 No. 18 Str. with 1 No. 16 Str, 1 No. 18 Str. with 2 No. 16 Str, 2 No. 18 Str. with 2 No. 16 Str.
62516-2	(3) 22AWG str, (4) 22AWG str, (5) 22AWG str, (6) 22AWG str, (2) 20AWG str, (3) 20AWG str, (4) 20AWG, Str, (2) 18AWG str

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63625-1	<p>Stranded only:</p> <p>1-18 + 2-14 1-14 + 1-16 + 2-18 2-16 + 3-18 5-18 + 2-20 4-16 3-16 + 1-18 + 1-20 2-16 + 2-18 + 2-20 4-18 + 1-14 5-18 + 1-16 3-16 + 3-20 3-16 + 2-18 2-16 + 3-18 + 1-20 5-18 + 3-20 2-18 + 2-14 4-16 + 1-18 5-18 + 1-14 6-18 + 1-16 4-20 + 2-14 3-14 2-16 + 2-18 + 1-14 3-16 + 3-18 5-16 8-18 3-16 3-18 + 2-14 1-14 + 1-16 + 1-12 5-18 + 2-16 3-18 + 3-20 6-18 + 4-20 3-14 + 1-18 2-14 + 2-18 + 1-16 3-16 + 1-12 4-16 + 1-14 2-12 + 1-18 2-14 + 1-12 7-18 + 4-20 6-16 3-14 + 2-18 2-12 + 1-16 3-16 + 1-12 + 1-18 2-14 + 1-20 2-16 + 1-14 3-16 + 1-18 1-16 + 3-18 + 2-20 4-18 + 3-20 6-18 1-12 + 2-18</p>
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3-18
2-18 + 1-20 + 1-22
5-20

2-18 + 2-20
3-18 + 1-22
4-20 + 1-18

1-16 + 2-18
3-18 + 1-20
2-18 + 2-20 + 1-20
6-20
2-16 + 1-20
2-18 + 3-20
4-18
1-16 + 4-20
2-16 + 1-18

3-18 + 2-20
7-20
2-16 + 2-20
4-20 + 2-18

4-18 + 1-20
1-20 + 1-16 + 1-14

3-18 + 1-16
1-18 + 1-20 + 2-16

5-18
3-20 + 2-16
2-14
1-16 + 1-18 + 1-14
2-16 + 2-18

4-18 + 2-20
3-16 + 1-20

1-14 + 3-18
2-16 + 2-18 + 1-22
4-18 + 1-16
5-18 + 1-20

4-20 + 2-16

63130-2, 63130-3	(1) 18AWG str + (1) 18AWG sol (1) 16AWG str + (1) 22AWG sol (1) 16AWG str + (1) 22AWG tin plated str (1) 18AWG str + (1) 20AWG str (2) 24AWG str + (2) 22AWG str (1) 18AWG str + (2) 22AWG str (1) 18AWG str + (3) 22AWG str (4) 20AWG str (3) 22AWG str (3) 18AWG str (4) 24AWG str
62754-1,- 2	Refer to Ill. 8

GENERAL CHARACTER AND USE:

The devices described in this report are of the following type.

Type of Wiring Termination

Wire Connector - Crimp type.

Tooling - These wire connectors are assembled to their rated wire combinations using the manufacturer's Amp-O-Lectric automatic crimp tooling as follows:

<u>Connector Cat. No.</u>	<u>Crimp Tool Applicators</u>	<u>Ills.</u>
485043-1, 2	.140F	5
63625-1	.180F or .220F	2, 4
62754-1,-2	.300F	2,3
63130-2, -3	.110F	6
60372-1	.180F	9
62759-1	.180F	10
61299-1	"Quick-Change Applicator" Part No. 565863-2	12
61299-2, -3	.180F	11

Tooling - These wire connectors are assembled to their rated wire combinations using the manufacturer's TYCO ELECTRONICS crimp tooling as follows:

<u>Connector Cat. No.</u>	<u>Crimp Tool Applicators</u>	<u>Ills.</u>
62516-2	566365	14

Materials - These connectors are formed of copper alloy, See Ills. for dimensions.

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE USE) :

Products designated **USR** have been investigated using requirements contained in the Standard **UL 486C**.

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Conditions of Acceptability -

Use - For use only in or with complete equipment where the acceptability of the combination is determined by UL LLC.

1. Marking information including "CU" or "Copper", cat. no., crimp tool information, wire range are not provided. The need for such markings shall be determined in the end use equipment.

1A. The unit container is not marked "TO BE SOLD ONLY WITH INSTALLATION INSTRUCTIONS". The need for this marking shall be determined in the end use equipment.

2. Cat. Nos. 63625-1, **62754-1,-2**, 61299-1, 61299-2 and 61299-3 splicing connectors are intended for factory-wiring only.

3. These terminals are for use with copper wires only.

4. Cat. Nos. 48503-1, 63130-2, -3 comply with field-wiring requirements in UL 486C Standard For Splicing Wire Connectors, Third Edition.

5. The current-carrying suitability of Cat. Nos. 61299-1, 61299-2, -3 shall be determined in the end-use.

6. Cat. No. 612991-1 may be used only where steel is acceptable for current carrying parts.