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PPAP Package for:

Newark Electronics

85C0834

(TE Connectivity Part Number: 917989-6)

13/Aug/2019

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Nondisclosure Agreement

If a nondisclosure agreement has been reached with your company, it will be included on the following page(s). Please review the terms of this agreement to ensure that further actions associated with information contained within this PPAP package do not violate these terms.

If a nondisclosure agreement HAS NOT been reached, certain documents deemed confidential by TE Connectivity will not be included in this PPAP package. These documents include but are not limited to the Design FMEA, the Process Flow Diagram, the Process FMEA and the Control Plan. These documents can be reviewed by you company but cannot be retained.



Section 1

Design Records

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LOC
J

DIST
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REVISIONS

変更

DESCRIPTION

DATE

DWN

APVD

P

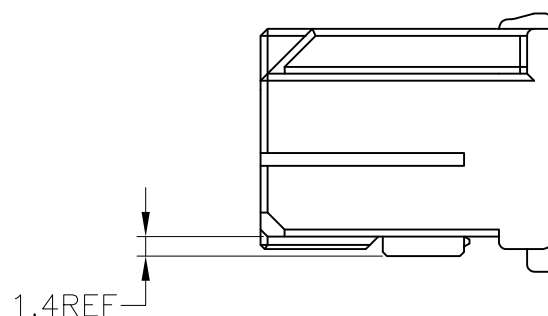
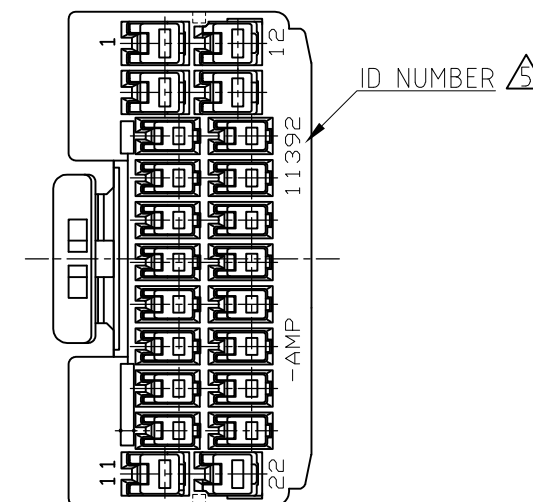
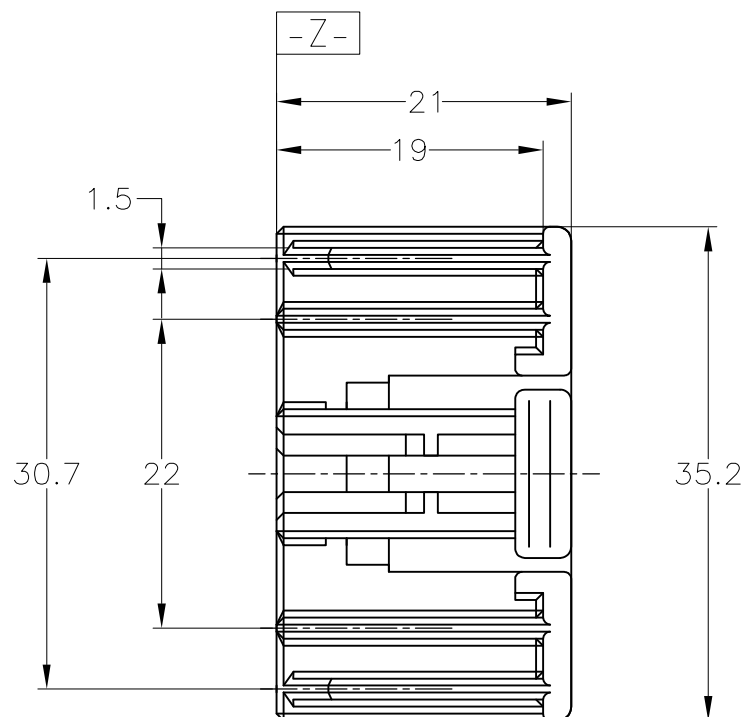
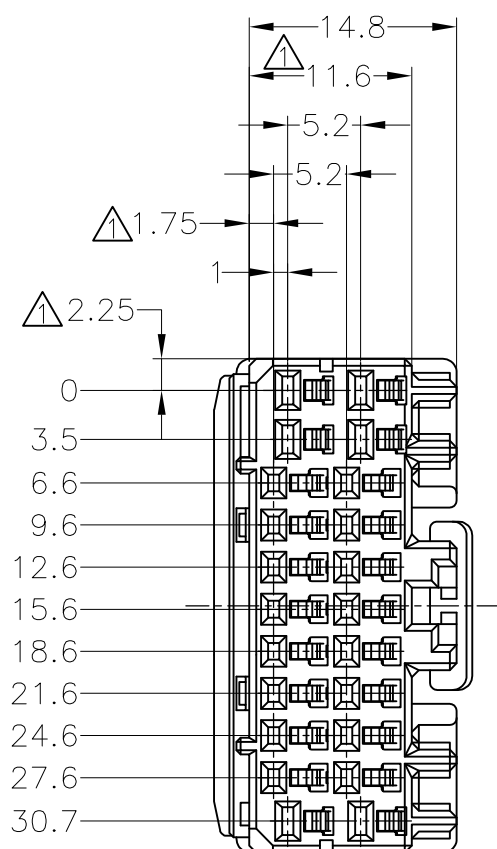
LTR

REVISD PER ECO-11-005140

28MAR11

RK

HMR



- ① MUST BE KEPT BETWEEN -Z- AND 2mm
- 2. THE MATING CAP HOUSING PART NUMBER ; 178764
- 3. APPLIED CONTACT PART NUMBER ; 175265, 175266, 175268, 175269
- 4. APPLICABLE PRODUCT SPEC. NUMBER; 108-5342
- ⑤ RETAINER COLOR; ALL WHITE

- ① -Z- 面より 2mmの範囲で測定
- 2. 嵌合相手ハウジング型番 : 178764
- 3. 内装するリセプタクルコンタクト型番 : 175265, 175266, 175268, 175269
- 4. 適用製品規格番号 : 108-5342
- ⑤ リテーナーは全て白色

淡灰 (LIGHT GRAY)	6-917989-6
黄 (YELLOW)	917989-7
灰 (DARK GRAY)	917989-6
青 (BLUE)	917989-5
SEE DRAWING 917989-4	917989-4
黒 (BLACK)	917989-2
白 (WHITE)	917989-1
⑤ 色 (COLOR)	PART NUMBER

TOLERANCES UNLESS OTHERWISE SPECIFIED:	
10 ≥	± 0.2
30 ≥ > 10	± 0.25
100 ≥ > 30	± 0.3
ANGLE	± 3°

THIS DRAWING IS A CONTROLLED DOCUMENT.	
DIMENSIONS: 単位: 耗 mm	TOLERANCES UNLESS OTHERWISE SPECIFIED: 一般公差
	0 PLC ± -
	1 PLC ± -
	2 PLC ± -
	3 PLC ± -
	4 PLC ± -
	ANGLES ± -
MATERIAL 材料 PBT	FINISH 仕上 -

DWN M.SUGAWARA 25MAY06	NAME 名称 040/070 HYBRID I/O CONNECTOR MK-II 22POSITION PLUG HOUSING
CHK T.SHINOHARA 25MAY06	
APVD K.BETSUI 25MAY06	
PRODUCT SPEC 製品規格 SEE NOTE	
APPLICATION SPEC 取付適用規格 -	SIZE A3
WEIGHT -	CAGE CODE 00779
CUSTOMER DRAWING	

DWN M.SUGAWARA 25MAY06		DRAWING NO 番号 G-917989		RESTRICTED TO -
CHK T.SHINOHARA 25MAY06		SCALE 尺度 2:1		
APVD K.BETSUI 25MAY06		SHEET 1 OF 1		REV A2





Section 2

Engineering Change Documents



Product Change Notification

Current Date: 19-Jul-2018

TE Connectivity

Product Change Notification: P-18-016097

PCN Date: 17-JUL-18

TE would like to inform you of the following change(s) to the listed TE Connectivity Product. In case of any further questions about this change(s), please contact your TE Connectivity Sales Engineer. Affected part, drawing and/or specification numbers are listed on the attached sheet(s).

General Product Description:

One Roof - Connectors stage

Description of Changes

Dear Customer, TE Connectivity Automotive Business Unit is in the fourth phase of a process Consolidation Project in the Empalme Campus, the objective is to consolidate Plant 1 (Molding & Mechatronics) and Plant 4 (Assembly) into a single building, in the same industrial park. The fourth phase involves migration of TE4 Connector Assembly processes to TE2 One Roof Building, As part of our ongoing activities to provide our customers the highest quality products, this will drive to a Vertical Integration, Safety Systems improvements, Warehouse optimization, and excellent customer experience. The building is being prepare to start moving in September 2018 through December 2018.

Other attachments:

[TE Empalme Consolidation](#)

Reason for Changes:

Dear Customer, we hereby inform you about a transfer of tools and/or processes. The transfer follows a strict procedure, which fully maintains quality, ability to supply and form-fit-function of the concerned products. The new manufacturing location operates under a certified quality management system in accordance with standard automotive requirements. A TE-internal release test based on the relevant part specifications will be executed before delivery. Upon request, a PPAP Level 2 will be available if it concerns a transfer of a tool which produces a finished TE-product. A PPAP Level 1 will be available if it concerns a component of a TE-product, where the production location of the finished TE-product remains unchanged. If you require such a PPAP, please notify the responsible TE Sales Contact within 14 calendar days after receipt of this PCN

Estimated Dates:

Last Order Date (Obsolete Parts Only):	First Date To Ship (Changed Parts Only):
	02-NOV-2018
Last Ship Date (Obsolete Parts Only):	Last Date for Mixed Shipments: (Changed Parts Only):
	No Mixed Shipments

Part Number(s) being Modified:

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1-1326132-0	NO					
1-1326327-1	NO					
1-1326328-2	NO					
1-1326727-9	NO					
1-1411001-0	NO					
1-1437855-9	NO		"108525A"			
1-1438454-1	NO					
1-1438726-6	NO					
1-1438726-7	NO					
1-1456315-1	NO					
1-1456315-2	NO					
1-1456315-5	NO					
1-1456426-1	NO					
1-1456426-2	NO					
1-1456426-5	NO					
1-1456426-6	NO					
1-1587041-4	NO					
1-1924067-2	NO					
1-1924067-3	NO					
1-1924067-4	NO					
1-1924067-5	NO					
1-1924067-6	NO					
1-1924067-9	NO					
1-1924337-3	NO					
1-1924939-6	NO					
1-1924940-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1-1924940-3	NO					
1-1924940-7	NO					
1-1924940-8	NO					
1-1924941-0	NO					
1-1924941-2	NO					
1-1924941-3	NO					
1-1924941-4	NO					
1-1924941-5	NO					
1-1924941-8	NO					
1-1924943-7	NO					
1-1924943-8	NO					
1-1924944-1	NO					
1-1924944-5	NO					
1-1924944-7	NO					
1-2035363-0	NO					
1-2098067-3	NO					
1-2098067-4	NO					
1-2098067-5	NO					
1-2098067-6	NO					
1-2098923-0	NO					
1-2098923-4	NO					
1-2138685-5	NO					
1-2203515-1	NO					
1-2203529-2	NO					
1-2203529-5	NO					
1-2203654-2	NO					
1-2203654-7	NO					
1-2203773-2	NO					
1-2208018-3	NO					
1-2208018-4	NO					
1-2208021-1	NO					
1-2208021-2	NO					
1-2208408-2	NO					
1-2272975-1	NO					
1-2296697-1	NO					
1-2296697-2	NO					
1-2300499-1	NO					
1-2300499-2	NO					
1-2309436-1	NO					
1-638514-0	NO					
1-638514-2	NO					
1-638514-3	NO					
1-638514-4	NO					
1-638514-5	NO					
1-638514-6	NO					
1-776905-1	NO					
1-776905-2	NO					
1-776905-3	NO					
1274412-1	NO					
1326055-3	NO					
1326110-1	NO					
1326122-1	NO					
1326122-3	NO					
1326132-1	NO					
1326132-2	NO					
1326132-4	NO					
1326132-9	NO					
1326136-1	NO					
1326136-2	NO					
1326140-1	NO					
1326140-3	NO					
1326226-1	NO					
1326226-2	NO					
1326226-3	NO					
1326328-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1326339-1	NO					
1326339-6	NO					
1326339-7	NO					
1326339-8	NO					
1326353-1	NO					
1326353-3	NO					
1326362-1	NO					
1326362-3	NO					
1326362-7	NO					
1326509-1	NO					
1326729-1	NO					
1326942-3	NO					
1326964-1	NO					
1411001-1	NO		"V23542-G1508-A115"			
1411001-6	NO					
1411001-7	NO					
1411001-8	NO					
1411001-9	NO					
1411169-1	NO					
1411169-3	NO					
1411169-4	NO					
1411367-1	NO					
1432654-1	NO		"VATS-0022"			
1437882-8	NO		"109640A", "X109640A"			
1438031-1	NO		"V23542-G1516-A101"			
1438082-1	NO					
1438083-1	NO					
1438122-1	NO					
1438156-1	NO					
1438156-3	NO					
1438399-1	NO					
1438426-1	NO					
1438426-3	NO					
1438454-1	NO					
1438521-1	NO					
1438545-1	NO					
1438726-2	NO					
1438759-1	NO					
1438761-6	NO					
1438766-1	NO					
1438794-1	NO					
1438794-2	NO					
1438810-1	NO					
1438841-1	NO					
1438841-2	NO					
1438848-1	NO					
1438975-2	NO					
1443966-1	NO					
1452187-1	NO					
1456016-1	NO		"130025602403"			
1456016-2	NO		"130025602404"			
1456016-3	NO		"130025602405"			
1456016-4	NO		"130025602406"			
1456078-1	NO		"1X2078701"			
1456078-2	NO		"1X2078702"			
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1456315-2	NO					
1456315-3	NO					
1456315-5	NO					
1456315-6	NO					
1456315-9	NO					
1456471-1	NO					
1456471-2	NO					
1456471-4	NO					
1456471-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
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1456554-1	NO					
1456601-1	NO					
1456602-2	NO					
1456867-3	NO					
1456950-2	NO					
1456987-1	NO					
1456987-3	NO					
1456987-4	NO					
1456987-5	NO					
1456987-7	NO					
1456989-1	NO					
1456989-2	NO					
1456989-3	NO					
1456989-4	NO					
1488107-1	NO					
1488573-1	NO					
1488750-1	NO					
1488846-4	NO					
1488846-6	NO					
1488903-1	NO					
1557052-1	NO					
1557636-1	NO					
1557667-1	NO					
1587041-1	NO					
1587255-1	NO					
1587268-4	NO					
1587270-5	NO					
1587392-7	NO					
1587392-8	NO					
1642407-5	NO					
1670118-1	NO					
1670120-1	NO					
1670120-2	NO					
1718981-1	NO					
1732120-1	NO					
1732120-2	NO					
1732510-3	NO					
174971-2	NO					
174973-2	NO					
174975-2	NO					
174979-2	NO					
179678-6	NO					
179679-6	NO					
179680-5	NO					
179681-6	NO					
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184002-1	NO					
184004-1	NO					
184006-1	NO					
184006-2	NO					
184008-1	NO					
184010-1	NO					
184012-1	NO					
184014-1	NO					
184016-1	NO					
184020-1	NO					
184022-1	NO					
184032-1	NO					
184034-1	NO					
184042-1	NO					
184042-2	NO					
184046-1	NO		"EM3604-000", "AMP-0-0184046-1"			
184050-2	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
184060-1	NO					
184097-1	NO					
184115-1	NO					
184116-1	NO					
184116-2	NO					
184124-1	NO					
184207-1	NO					
184212-1	NO					
184212-2	NO					
184214-1	NO					
184216-1	NO					
184220-1	NO					
184240-1	NO					
184246-1	NO					
184248-1	NO					
184254-1	NO					
184270-1	NO					
184292-1	NO					
184305-1	NO					
184311-1	NO					
184315-1	NO					
184322-1	NO					
184328-1	NO					
184334-1	NO					
184340-1	NO					
184341-1	NO					
184344-1	NO					
184346-1	NO					
184346-2	NO					
184349-1	NO					
184355-1	NO					
184355-2	NO					
184370-1	NO					
184375-1	NO					
184392-1	NO					
184392-2	NO					
184393-1	NO					
184393-2	NO					
184394-1	NO					
184396-1	NO					
184397-1	NO					
184398-1	NO					
184399-1	NO					
184400-1	NO					
184401-1	NO					
184406-1	NO					
184408-1	NO					
184408-2	NO					
184409-1	NO					
184435-1	NO					
184452-1	NO					
1924117-4	NO					
1924211-1	NO					
1924211-3	NO					
1924212-1	NO					
1924212-2	NO					
1924227-2	NO					
1924292-1	NO					
1924292-5	NO					
1924292-6	NO					
1924337-1	NO					
1924337-2	NO					
1924337-3	NO					
1924346-1	NO					
1924346-3	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
1924484-1	NO					
1924639-1	NO					
1924639-2	NO					
1924779-1	NO					
1924900-1	NO					
1924900-4	NO					
1924939-1	NO					
1924940-1	NO					
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1924940-6	NO					
1924941-1	NO					
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2-1438521-7	NO					
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2-1924783-9	NO					
2-1924939-2	NO					
2-1924939-4	NO					
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2-1924941-1	NO					
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2-2098923-1	NO					
2-2098923-2	NO					
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2-2203654-9	NO					
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2-638518-1	NO					
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2-776728-5	NO					
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2035024-2	NO					
2035037-1	NO					
2035037-2	NO					
2035239-1	NO					
2035360-1	NO					
2035360-3	NO					
2035360-5	NO					
2035363-1	NO					
2035363-2	NO					
2035363-3	NO					
2035363-4	NO					
2035363-5	NO					
2035363-6	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2035363-7	NO					
2098067-1	NO					
2098067-2	NO					
2098067-3	NO					
2098067-4	NO					
2098067-5	NO					
2098067-6	NO					
2098067-7	NO					
2098198-5	NO					
2098256-7	NO					
2098269-1	NO					
2098269-4	NO					
2098401-2	NO					
2098407-1	NO					
2098489-1	NO					
2098491-1	NO					
2098541-1	NO					
2098541-5	NO					
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2098557-1	NO					
2098557-4	NO					
2098557-7	NO					
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2098966-3	NO					
2098966-6	NO					
2098966-7	NO					
2138045-1	NO					
2138046-3	NO					
2138046-6	NO					
2138047-3	NO					
2138144-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2138209-1	NO					
2138250-1	NO					
2138251-1	NO					
2138252-1	NO					
2138260-1	NO					
2138274-1	NO					
2138281-2	NO					
2138314-1	NO					
2138314-5	NO					
2138314-7	NO					
2138338-5	NO					
2138338-7	NO					
2138414-1	NO					
2138731-1	NO					
2138873-4	NO					
2203111-2	NO					
2203111-6	NO					
2203111-7	NO					
2203314-1	NO					
2203314-2	NO					
2203314-3	NO					
2203318-1	NO					
2203318-2	NO					
2203321-1	NO					
2203321-2	NO					
2203321-3	NO					
2203321-6	NO					
2203321-7	NO					
2203324-2	NO					
2203516-7	NO					
2203537-1	NO					
2203541-1	NO					
2203542-1	NO					
2203654-9	NO					
2203772-1	NO					
2203781-1	NO					
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2203918-1	NO					
2203919-1	NO					
2203937-1	NO					
2203937-4	NO					
2203937-5	NO					
2208408-1	NO					
2272006-1	NO					
2272006-2	NO					
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2272010-2	NO					
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2272431-1	NO					
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2272926-3	NO					
2272975-1	NO					
2272975-5	NO					
2272975-7	NO					
2272975-9	NO					
2286018-1	NO					
2287729-2	NO					
2288276-1	NO					
2288276-2	NO					
2289050-1	NO					
2289050-2	NO					
2291594-1	NO					
2296701-1	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
2296701-6	NO					
2297354-1	NO					
2306639-1	NO					
2306984-1	NO					
2309644-1	NO					
2309644-3	NO					
2309644-4	NO					
2311107-1	NO					
2320479-1	NO					
2324011-1	NO					
3-1326328-4	NO					
3-1326339-5	NO					
3-1326339-6	NO					
3-1326339-7	NO					
3-1326727-2	NO					
3-1326727-3	NO					
3-1326729-3	NO					
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3-1438640-5	NO					
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4-1326339-1	NO					
4-1326339-5	NO					
4-1326339-7	NO					
4-1437287-0	NO		"0944252L01"			
4-1437287-5	NO		"130025602401"			
4-1437287-6	NO		"130025602402"			
4-1437287-7	NO		"130025603205"			
4-1437290-5	NO		"4001753201"			
4-1437290-6	NO		"4001753202"			
4-1437290-7	NO		"4001753203"			
4-1438083-3	NO					
4-1438083-4	NO					
4-1438640-5	NO					
4-1454396-1	NO		"108104D"			
4-1454396-7	NO		"X109732A"			
4-1456426-1	NO					
4-1456426-2	NO					
4-1488991-1	NO					
4-1488991-2	NO					
4-1587041-6	NO					
4-1924067-1	NO					
4-1924067-2	NO					
4-1924292-1	NO					
4-1924939-2	NO					
4-1924939-3	NO					
4-1924939-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
4-1924939-7	NO					
4-1924939-8	NO					
4-1924939-9	NO					
4-2098269-2	NO					
4-2098269-5	NO					
4-2098269-6	NO					
4-2098541-1	NO					
4-2098541-2	NO					
4-2098557-1	NO					
4-2098641-1	NO					
4-2098641-2	NO					
4-2138685-1	NO					
4-2203542-7	NO					
4-2203542-8	NO					
4-2203654-2	NO					
4-2203654-6	NO					
4-2203654-7	NO					
4-2203654-8	NO					
4-2203654-9	NO					
4-2272003-1	NO					
4-2272003-2	NO					
4-2272003-4	NO					
4-2272003-5	NO					
4-2272004-1	NO					
4-2272004-2	NO					
4-2272005-1	NO					
4-2272005-2	NO					
4-2272173-1	NO					
4-2272173-2	NO					
4-2272173-3	NO					
4-776728-0	NO					
4-776728-1	NO					
4-776728-2	NO					
4-776728-3	NO					
414946-1	NO					
5-1326339-0	NO					
5-1419166-6	NO					
5-1419167-6	NO					
5-1419168-8	NO		"V23542-G1516-D101"			
5-1437287-0	NO		"1300279"			
5-1437854-0	NO		"104055"			
5-1438082-1	NO					
5-1438841-9	NO					
5-1924939-0	NO					
5-1924939-1	NO					
5-1924939-4	NO					
5-1924939-5	NO					
5-1924939-6	NO					
5-1924939-7	NO					
5-2098269-0	NO					
5-2138685-5	NO					
5-2203541-6	NO					
5-2203541-7	NO					
5-2203542-0	NO					
5-2272352-5	NO					
5-2306984-6	NO					
5-2306984-7	NO					
6-1419166-1	NO		"V23542-G1404-A107"			
6-1419166-2	NO		"V23542-G1404-A108"			
6-1419167-1	NO		"V23542-G1416-A107"			
6-1924939-5	NO					
6-1924939-9	NO					
6-2098922-6	NO					
6-2203541-3	NO					
6-2203541-5	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
6-2203541-6	NO					
6-2203542-1	NO					
6-2203542-2	NO					
6-2203542-8	NO					
6-2203542-9	NO					
6-2309433-1	NO					
6-776728-8	NO					
6-776728-9	NO					
6-776729-0	NO					
6-776729-3	NO					
6-776729-4	NO					
6-776729-5	NO					
638014-1	NO					
638079-1	NO					
638082-1	NO					
638097-2	NO					
638113-1	NO					
638116-1	NO					
638119-1	NO					
638137-1	NO					
638141-1	NO					
638143-1	NO					
638147-1	NO					
638151-1	NO					
638157-1	NO					
638199-2	NO					
638207-6	NO					
638207-8	NO					
638245-1	NO					
638245-2	NO					
638286-2	NO					
638392-1	NO					
638392-2	NO					
638392-3	NO					
638393-1	NO					
638393-3	NO					
638393-5	NO					
638393-7	NO					
638394-1	NO					
638394-4	NO					
638394-5	NO					
638397-1	NO					
638444-9	NO					
638514-1	NO					
638514-8	NO					
638517-5	NO					
638518-5	NO					
638518-8	NO					
638817-3	NO					
638817-4	NO					
638817-8	NO					
638817-9	NO					
638818-2	NO					
638832-3	NO		"1000012806-0001"			
638849-7	NO					
638939-5	NO					
7-1326728-8	NO					
7-1326728-9	NO					
7-2098922-2	NO					
7-2203541-2	NO					
7-2203541-3	NO					
7-2203541-4	NO					
7-2203541-5	NO					
7-2203542-0	NO					
7-776728-0	NO					

Part Number	Part Discontinued per PCN	Customer Drawing	Alias Part Number(s)	Substitute Part Number	Substitute Alias Part Number(s)	Description Of Difference
7-776728-1	NO					
7-776729-2	NO					
7-776729-4	NO					
7-776729-5	NO					
776728-1	NO					
776729-1	NO					
776793-1	NO					
776793-2	NO					
776905-1	NO					
776905-8	NO					
776932-1	NO					
776932-3	NO					
776932-4	NO					
9-1419157-6	NO		"V23542-G1410-A107"			
9-1419166-0	NO		"V23542-G1408-A101"			
9-1438082-2	NO					
9-1454396-3	NO		"X109644C"			
917981-1	NO					
917981-2	NO					
917981-6	NO					
917989-1	NO		"0-0917989-1"			
917989-2	NO					
917989-6	NO					
917992-1	NO					
917992-6	NO					



Section 3

Customer Engineering Approval

Section 4

Design FMEA

See Section A for nondisclosure conditions.

The Design FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.



Section 5

Process Flow Diagram

See Section A for nondisclosure conditions.

The Process Flow Diagram, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.



Section 6

Process FMEA

See Section A for nondisclosure conditions.

The Process FMEA, if included, is a Class II confidential document belonging to TE Connectivity. A class II document may not be further distributed and is subject to the conditions of the nondisclosure agreement.



Section 7

Control Plan

**See Section A for nondisclosure conditions.
The Control Plan, if included, is a Class II confidential document
belonging to TE Connectivity. A class II document may not be
further distributed and is subject to the conditions of the
nondisclosure agreement.**

Section 8

Measurement System Analysis



DATA - GRR ATTRIBUTE STUDY

Empalme Site

DATE:	16-Mar-19
REQUEST:	Mario Baidon
QUALITY ENGINEER:	Mario Baidon
MANUFACTURE ENGINEER	Josue Garcia
PLANT:	Plant 2
SPC TECHNICIAN:	Alejandro Rodriguez
PART NUMBER:	917989-6
COMMENT General:	Vision System 49784844

Work Center:	8557
NUM. Gage-Fixture	49784844
OPERATOR 1	-OPERATOR 1
OPERATOR 2	-OPERATOR 2
OPERATOR 3	-OPERATOR 3
Standard Record	2019-0482

# ID	Num Sample	DETAILS	Standard	-OPERATOR 1			Expert	-OPERATOR 2			Expert	-OPERATOR 3			Expert	OPER VS OPER	OPER VS SAMPLE
				Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Agree	Agree
1	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
2	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
3	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
4	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
5	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
6	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
7	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
8	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
9	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
10	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
11	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
12	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
13	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
14	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
15	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
16	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
17	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
18	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
19	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
20	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
21	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
22	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
23	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
24	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
25	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
26	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
27	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
28	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
29	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
30	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK



DATA - GRR ATTRIBUTE STUDY

Empalme Site

DATE:	16-Mar-19
REQUEST:	Mario Baidon
QUALITY ENGINEER:	Mario Baidon
MANUFACTURE ENGINEER	Josue Garcia
PLANT:	Plant 2
SPC TECHNICIAN:	Alejandro Rodriguez
PART NUMBER:	917989-6
COMMENT General:	Vision System 49784844

Work Center:	8557
NUM. Gage-Fixture	49784844
OPERATOR 1	-OPERATOR 1
OPERATOR 2	-OPERATOR 2
OPERATOR 3	-OPERATOR 3
Standard Record	2019-0482

# ID	Num Sample	Known Population DETAILS	Standard	-OPERATOR 1			Expert	-OPERATOR 2			Expert	-OPERATOR 3			Expert	OPER VS OPER	OPER VS SAMPLE
				Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Try #1	Try #2	Try #3	Result	Agree	Agree
31	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
32	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
33	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
34	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
35	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
36	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
37	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
38	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
39	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
40	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
41	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
42	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
43	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
44	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
45	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
46	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
47	4	WRONG HOUSING (COLOR)	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
48	3	CLOSED TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK
49	1	GOOD SAMPLE	YES	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	YES	YES	YES	ACCEPTED	OK	OK
50	2	MISSING TPA	NO	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	NO	NO	NO	ACCEPTED	OK	OK

Final comments of the study:

SPC Technician: Must be sent to answer to request, quality engineer and manufacture engineer.



REPORT GRR ATTRIBUTE

DATE	16-Mar-19	ID - EQUIPMENT
STANDAR RECORD	2019-0482	49784844
Work Center:	8557	
RESULT	ACCEPTED	

Operators

Inspected total

Agreement

95% UCL

Calculated Score

95% LCL

% OPER VS OPER			% OPER VS SAMPLE		
-	-	-	-	-	-
OPERATO	OPERATOR	OPERATO	OPERATO	OPERATOR	OPERATO
R 1	2	R 3	R 1	2	R 3
50	50	50	50	50	50
50	50	50	50	50	50
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
94.18%	94.18%	94.18%	94.18%	94.18%	94.18%

Total Inspected

□ coincidencias

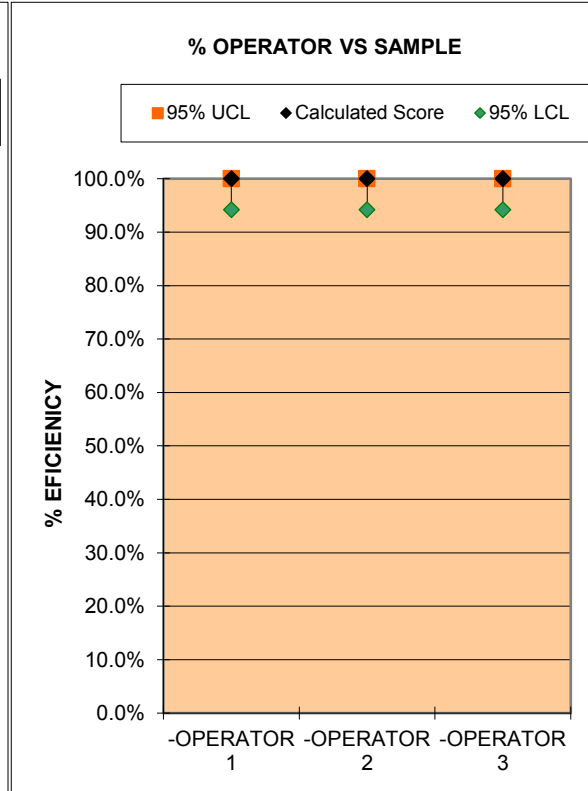
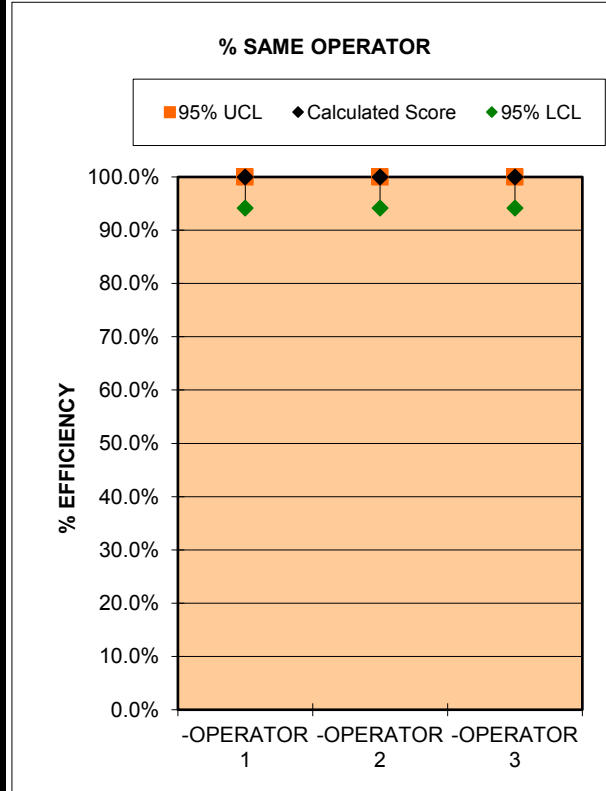
95% UCL

Calculated Score

95% LCL

Screen % Effective Score	
	50
	50
	100.0%
Calculated Score	100.0%
	94.18%

Screen % Effective Score vs Standard	
	50
	50
	100.0%
Calculated Score	100.0%
	94.18%



Section 9

Dimensional Results



Production Part Approval

DIMENSIONAL TEST RESULTS



TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity	Part Number: 917989-2
Supplier/Vendor Code: N/A	Part Name: 040/070 HYBRID I/O CONNECTOR MK-II 22 POSITION PLUG HOUSING
INSPECTION FACILITY: TE Connectivity Empalme Metrology lab	Design Record Change Level: DWG: C - 917989 REV. A2
	Engineering Change Documents: N/A
	# Folio: 45058 Page 1 of 3

Item	Dim./Spec.	Spec. / Limits tol + tol -		Units	Organization Measurement Results (Data)						Ok	Not Ok	Instrument # ID
					SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6			
					1	35.2	0.3	0.3	mm	35.12			
2	30.7	0.3	0.3	mm	30.530	30.535	30.541	30.526	30.533	30.547	✓		LMMC-009
3	22	0.3	0.3	mm	21.837	21.859	21.852	21.842	21.844	21.848	✓		LMMC-009
4	1.5	0.2	0.2	mm	1.50	1.50	1.49	1.47	1.51	1.50	✓		LMMC-009
	1.5	0.2	0.2	mm	1.50	1.50	1.49	1.50	1.52	1.50	✓		
	1.5	0.2	0.2	mm	1.51	1.50	1.50	1.49	1.47	1.48	✓		
	1.5	0.2	0.2	mm	1.49	1.49	1.51	1.51	1.51	1.50	✓		
5	21	0.25	0.25	mm	20.90	20.94	20.95	20.92	20.91	20.90	✓		LMMC-009
6	19	0.25	0.25	mm	19.017	19.005	19.038	19.001	18.987	18.998	✓		LMMC-009
	19	0.25	0.25	mm	18.960	18.948	19.002	18.956	19.007	18.993	✓		
	19	0.25	0.25	mm	18.976	18.975	18.941	18.976	18.944	18.957	✓		
	19	0.25	0.25	mm	19.047	19.036	18.989	19.040	19.013	18.997	✓		
7	3.5	0.2	0.2	mm	3.488	3.487	3.480	3.491	3.483	3.484	✓		LMMC-009
	3.5	0.2	0.2	mm	3.476	3.475	3.478	3.479	3.493	3.493	✓		
8	6.6	0.2	0.2	mm	6.545	6.548	6.558	6.550	6.557	6.558	✓		LMMC-009
	6.6	0.2	0.2	mm	6.524	6.525	6.544	6.532	6.563	6.562	✓		
9	9.6	0.2	0.2	mm	9.545	9.548	9.557	9.547	9.555	9.556	✓		LMMC-009
	9.6	0.2	0.2	mm	9.522	9.525	9.544	9.527	9.557	9.557	✓		
10	12.6	0.25	0.25	mm	12.541	12.544	12.553	12.542	12.547	12.549	✓		LMMC-009
	12.6	0.25	0.25	mm	12.514	12.517	12.532	12.520	12.543	12.544	✓		
11	15.6	0.25	0.25	mm	15.541	15.547	15.552	15.531	15.547	15.549	✓		LMMC-009
	15.6	0.25	0.25	mm	15.498	15.502	15.523	15.501	15.535	15.536	✓		
12	18.6	0.25	0.25	mm	18.537	18.546	18.549	18.529	18.537	18.539	✓		LMMC-009
	18.6	0.25	0.25	mm	18.492	18.498	18.512	18.497	18.524	18.525	✓		
13	21.6	0.25	0.25	mm	21.534	21.544	21.545	21.525	21.539	21.540	✓		LMMC-009
	21.6	0.25	0.25	mm	21.483	21.489	21.501	21.481	21.515	21.516	✓		
14	24.6	0.25	0.25	mm	24.532	24.543	24.540	24.519	24.531	24.533	✓		LMMC-009
	24.6	0.25	0.25	mm	24.475	24.484	24.494	24.472	24.508	24.509	✓		
15	27.6	0.25	0.25	mm	27.537	27.549	27.538	27.524	27.538	27.539	✓		LMMC-009
	27.6	0.25	0.25	mm	27.475	27.489	27.493	27.476	27.486	27.487	✓		
16	30.7	0.3	0.3	mm	30.601	30.610	30.596	30.590	30.596	30.595	✓		LMMC-009
	30.7	0.3	0.3	mm	30.548	30.556	30.548	30.539	30.561	30.562	✓		
17	2.25	0.2	0.2	mm	2.298	2.301	2.308	2.294	2.349	2.324	✓		LMMC-009
	2.25	0.2	0.2	mm	2.287	2.289	2.264	2.274	2.271	2.262	✓		

March 2006 CFG-1003	SIGNATURE Daniel Zazueta	TITLE Metrology Chief	DATE April 3, 2019
AEF004J-EG Rev: J			



Production Part Approval

DIMENSIONAL TEST RESULTS



TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity	Part Number: 917989-2
Supplier/Vendor Code: N/A	Part Name: 040/070 HYBRID I/O CONNECTOR MK-II 22 POSITION PLUG HOUSING
INSPECTION FACILITY: TE Connectivity Empalme Metrology lab	Design Record Change Level: DWG: C - 917989 REV. A2
	Engineering Change Documents: N/A
	# Folio: 45058 Page <u>2</u> of <u>3</u>

Item	Dim./Spec.	Spec. / Limits		Units	Organization Measurement Results (Data)						Ok	Not Ok	Instrument # ID	
		tol +	tol -		SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6				
18	14.8	0.3	0.3	mm	14.554	14.648	14.642	14.697	14.662	14.639	✓		LMMC-009	
	14.8	0.3	0.3	mm	14.733	14.690	14.661	14.656	14.666	14.699	✓			
19	11.6	0.25	0.25	mm	11.644	11.599	11.532	11.568	11.542	11.580	✓		LMMC-009	
	11.6	0.25	0.25	mm	11.587	11.570	11.511	11.539	11.531	11.559	✓			
	11.6	0.25	0.25	mm	11.420	11.438	11.397	11.429	11.410	11.428	✓			
	11.6	0.25	0.25	mm	11.481	11.529	11.492	11.545	11.508	11.511	✓			
	11.6	0.25	0.25	mm	11.476	11.554	11.521	11.576	11.540	11.527	✓			
20	5.2	0.2	0.2	mm	5.168	5.167	5.176	5.176	5.166	5.164	✓		LMMC-009	
	5.2	0.2	0.2	mm	5.159	5.161	5.171	5.165	5.156	5.155	✓			
	5.2	0.2	0.2	mm	5.159	5.159	5.179	5.158	5.167	5.162	✓			
	21	5.2	0.2	0.2	mm	5.234	5.184	5.133	5.129	5.146	5.164	✓		LMMC-009
		5.2	0.2	0.2	mm	5.216	5.216	5.217	5.216	5.216	5.217	✓		
22	5.2	0.2	0.2	mm	5.206	5.208	5.211	5.201	5.198	5.197	✓			
	5.2	0.2	0.2	mm	5.209	5.210	5.207	5.208	5.215	5.209	✓			
	5.2	0.2	0.2	mm	5.224	5.226	5.229	5.229	5.232	5.232	✓			
	5.2	0.2	0.2	mm	5.245	5.247	5.248	5.239	5.255	5.247	✓			
	5.2	0.2	0.2	mm	5.202	5.202	5.202	5.202	5.202	5.202	✓			
	5.2	0.2	0.2	mm	5.159	5.159	5.159	5.160	5.160	5.159	✓			
	1.75	0.2	0.2	mm	1.750	1.748	1.700	1.750	1.681	1.681	✓		LMMC-009	
	1.75	0.2	0.2	mm	1.742	1.743	1.689	1.741	1.674	1.674	✓			
	1.75	0.2	0.2	mm	1.727	1.730	1.677	1.728	1.664	1.663	✓			
	1.75	0.2	0.2	mm	1.719	1.726	1.671	1.722	1.661	1.660	✓			
23	1.75	0.2	0.2	mm	1.717	1.727	1.682	1.718	1.660	1.659	✓			
	1.75	0.2	0.2	mm	1.724	1.738	1.689	1.719	1.667	1.665	✓			
	1.75	0.2	0.2	mm	1.733	1.752	1.707	1.729	1.676	1.675	✓			
	1.75	0.2	0.2	mm	1.739	1.757	1.717	1.735	1.695	1.693	✓			
	1.0	0.2	0.2	mm	0.902	0.965	0.983	1.002	0.998	0.975	✓		LMMC-009	
	1.0	0.2	0.2	mm	1.079	1.015	0.979	0.974	1.001	1.023	✓			
24	1.0	0.2	0.2	mm	1.108	1.029	0.984	0.972	1.003	1.030	✓			
	1.4	REFERENCE		mm	1.183	1.291	1.256	1.257	1.166	1.227	✓		LMMC-009	
25	MUST BE KEPT BETWEEN AND 2mm		- Z -	visual	OK	OK	OK	OK	OK	OK	✓			
26	THE MATING CAP HOUSING PART NUMBER, 178764.			visual	OK	OK	OK	OK	OK	OK	✓			

March 2006 CFG-1003	SIGNATURE Daniel Zazueta	TITLE Metrology Chief	DATE April 3, 2019
AEF004J-EG Rev: J			



Production Part Approval

DIMENSIONAL TEST RESULTS



TE Connectivity-Empalme is accredited by ANSI-ASQ National Accreditation Board for ISO/IEC 17025 under a defined calibration and/or testing scope.

Organization: TE Connectivity	Part Number: 917989-2
Supplier/Vendor Code: N/A	Part Name: 040/070 HYBRID I/O CONNECTOR MK-II 22 POSITION PLUG HOUSING
INSPECTION FACILITY: TE Connectivity Empalme Metrology lab	Design Record Change Level: DWG: C - 917989 REV. A2
	Engineering Change Documents: N/A
	# Folio: 45058 Page 3 of 3

Item	Dim./Spec.	Spec. / Limits tol + tol -	Units	Organization Measurement Results (Data)						Ok	Not Ok	Instrument # ID
				SAMPLE 1	SAMPLE 2	SAMPLE 3	SAMPLE 4	SAMPLE 5	SAMPLE 6			
27	APPLIED CONTACT PART NUMBER, 175265, 175266, 175268, 175269		visual	OK	OK	OK	OK	OK	OK	✓		
28	APPLICABLE PRODUCT SPEC NUMBER, 108 - 5342		visual	OK	OK	OK	OK	OK	OK	✓		
29	RETAINER COLOR, ALL WHITE		visual	OK	OK	OK	OK	OK	OK	✓		

CONCLUSION:			
TOTAL # OF FEATURES		384	
LESS BASIC DIMENSIONS		0	
LESS REFERENCE DIMENSIONS		6	
REPORTED DIMENSIONS		378	
# DIMENSIONS IN TOLERANCE		378	
# DIMENSIONS OUT OF TOLERANCE		0	
% DIMENSION IN TOLERANCE		100.00 %	
% DIMENSION OUT OF TOLERANCE		0.00 %	

March 2006 CFG-1003	SIGNATURE Daniel Zazueta	TITLE Metrology Chief	DATE April 3, 2019
AEF004J-EG Rev: J			

4

3

2

1

THIS DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION

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LOC
J

DIST
-

REVISIONS

変更

P	LTR	DESCRIPTION	DATE	DWN	APVD
	A2	REVISED PER ECO-11-005140	28MAR11	RK	HMR

25 ▲ MUST BE KEPT BETWEEN [-Z-] AND 2mm
 26 ▲ THE MATING CAP HOUSING PART NUMBER ; 178764
 27 ▲ APPLIED CONTACT PART NUMBER ; 175265, 175266, 175268, 175269
 28 ▲ APPLICABLE PRODUCT SPEC. NUMBER; 108-5342
 29 ▲ RETAINER COLOR; ALL WHITE

▲ [-Z-] 面より 2mm の範囲で測定
 2. 嵌合相手ハウジング型番 : 178764
 3. 内装するリセプタクルコンタクト型番 : 175265, 175266, 175268, 175269
 4. 適用製品規格番号 : 108-5342
 ▲ リテーナーは全て白色

淡灰 (LIGHT GRAY)	6-917989-6
黄 (YELLOW)	917989-7
灰 (DARK GRAY)	917989-6
青 (BLUE)	917989-5
SEE DRAWING 917989-4	917989-4
黒 (BLACK)	917989-2
白 (WHITE)	917989-1
色 (COLOR)	PART NUMBER

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:
単位: 概
mm

MATERIAL
材料
PBT

TOLERANCES UNLESS OTHERWISE SPECIFIED:
一般公差

0 PLC	±
1 PLC	±
2 PLC	±
3 PLC	±
4 PLC	±
ANGLES	±

FINISH
仕上

DWN M.SUGAWARA 25MAY06
 CHK T.SHINOHARA 25MAY06
 APVD K.BETSUI 25MAY06
 PRODUCT SPEC
 製品規格
 SEE NOTE
 APPLICATION SPEC
 取付適用規格

WEIGHT -

NAME 名称
 040/070 HYBRID I/O CONNECTOR MK-II
 22POSITION PLUG HOUSING

SIZE A3
 CAGE CODE 00779
 DRAWING NO 番号 C-917989
 RESTRICTED TO -

SCALE 尺度 2:1
 SHEET 1 OF 1
 REV A2

TE Connectivity

TOLERANCES UNLESS OTHERWISE SPECIFIED:
 一般公差
 10₂ : ±0.2
 30₂ > 10 : ±0.25
 100₂ > 30 : ±0.3
 ANGLE : ±3°

Digitally signed
 by Gladys
 Callejos
 Date: 2019.03.27
 16:41:29 +0700

1470-19 (3/11)



Section 10

Material, Performance Test Results



Straight Bill Of Lading

BOL # S44556

Page 1

Carrier Customer Pickup

Received, Subject to the classification and lawfully filed tariffs in effect on the date of issue of this original Bill of Lading.

Ship From:
MEP America
Carolina Public Warehouse
3609 N. Glenn Ave
Winston Salem, NC 27105

Deliver To :
TE Connectivity Corporation
TE North Carolina DC Components
8000 Piedmont Triad Parkway
Greensboro, NC 27409

Fr't Bill Type Prepaid

Ship Date 05/23/19 Order Date 05/22/19

Quantity	Unit	HM	Lot #	Description	Grs Wgt.	NMFC Code	Class
40	BAG		5010R8MBK2	RESIN NATURAL	2200 LB		60
			8C6001M	704058-7			
			P.O.#	2708146773			
3	GYLD		5010G30ZBK8E	RESIN BLACK KG	5280 LB		60
			8L0212M	704894-1			
			P.O.#	2708146579			

0930 NCLP #1 '0' 135

43
Dock # _____

7,480 LB

215404528

Received in Good Order: Driver's Signature _____

Mary Fern

Date: *5-23-19*

ATTN: TRUCKER Your Signature will acknowledge receipt of the correct description, (size and grade) AND total amount of pieces. THIS WAREHOUSE will NOT be responsible if shipment of incorrect product is made.

Subject to Section 7 of conditions of applicable bill of lading, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

* If the shipment moves between two ports by carrier by water, the law requires that the bill of lading shall state whether it is "Carrier or Shippers weight."

The description and weight indicated on the Bill of Lading are correct, subject to verification by governing TCFB and/or WWIB Agreements.

Charges are to be prepaid only if stated here.

The carrier shall not make delivery of this shipment without payment of freight and all lawful charges.

NOTE - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

+ The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of Consolidated Freight Classification or applicable rules in NMFC

Received \$ _____

The agreed or declared value of the property is hereby stated by the shipper to be not exceeding \$ _____

+ Shipper's imprint in lieu of stamp, not a part of Bill of Lading approved by the Interstate Commerce Commission.

to apply in prepayment of the charges on the property described hereon.

Per Prepaid _____

(Signature of Consignor)

per _____

(Acknowledging prepaid amt.)

MEP America
790 WELCH ROAD
COMMERCE TOWNSHIP, MI 48390

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation.

Permanent Post-Office Address of Shipper

Shipper, Per _____

Agent _____

Per _____



Section 11

Initial Process Studies



Section 12

Qualified Laboratory Documentation



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

TE Connectivity - Empalme
Carretera Internacional Km. 1969 Guad-Nog. Km.2
Sonora, C.P. 85340, Mexico

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the fields of

CALIBRATION, TESTING
and **DIMENSIONAL MEASUREMENT**

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

ACT-1173

Certificate Number


ANAB Approval

Certificate Valid Through: 05/03/2021
Version No. 005 Issued: 05/02/2019



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

TE Connectivity - Empalme

Carretera Internacional Km.1969 Guad-Nog. Km.2,
Sonora, C.P. 85340, Mexico
Daniel Zazueta 011-622-225-1174

CALIBRATION / DIMENSIONAL MEASUREMENT / TESTING

Valid to: **May 3, 2021**

Certificate Number: **ACT-1173**

TESTING

Mechanical Testing

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Force (0 to 200) lbf	Equipment Manual	Wiring Harnesses, Plastic and Metal Automotive Components	Force Gag
Mass (0 to 4) kg	Equipment Manual	Plastic and Metal Automotive Components	Scales
Moisture Content 45 g (50 to 200) °C	Work Instruction AEW021T-LB, Equipment Manual	Plastic Automotive Components	Ohaus MB 45 Moisture Analyzer
Melt Flow Rate	Work Instruction AEW022T-LB based on ASTM D1238, Equipment Manual	Plastic Automotive Components	Extrusion Plastometer Oven

DIMENSIONAL MEASUREMENT

Dimensional Measurement

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method and/or Equipment
Dimensional Measurement 1D	Up to 50 mm	0.0030 mm	Digital Height Indicator ASME Y14.5M, Engineering Drawing, Equipment Manual
Dimensional Measurement 1D	Up to 0.20 mm	0.0030 mm	Dial Test Indicator ASME Y14.5M, Engineering Drawing, Equipment Manual
Dimensional Measurement 1D	Up to 200 mm	0.021 mm	Calipers ASME Y14.5M, Engineering Drawing, Equipment Manual

Dimensional Measurement

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method and/or Equipment
Dimensional Measurement 1D	Up to 25.4 mm	0.0055 mm	Micrometers ASME Y14.5M, Engineering Drawing, Equipment Manual
Dimensional Measurement 1D	Up to 8 m	1.5 mm	Steel Measuring Tapes ASME Y14.5M, Engineering Drawing, Equipment Manual
Dimensional Measurement 1D	Up to 1 220 mm	1.5 mm	Steel Rule ASME Y14.5M, Engineering Drawing, Equipment Manual
Dimensional Measurement 3D	210 mm (X) 215 mm (Y) 100 mm (Z)	(2.34 + 1.14L) μm	Vision Systems ASME Y14.5M, Engineering Drawing, Equipment Manual

CALIBRATION

Length – Dimensional Metrology

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method and/or Equipment
Steel Measuring Tapes	Up to 8 m	0.28 mm	Digital Scale Work Instruction AEW001T-LB Tyco Spec 117-95 Calibration Steel Measuring Tapes. JIS B 7512 (1993)
Steel Rules	Up to 1 220 mm	0.12 mm	Master Height Gage Digital Scale Work Instruction AEW001T-LB Tyco Spec. 117-94 Calibration Steel Rules, JIS B 7516 (1987)
Granite Surfaces Plates Repeatability Resolution 0.00001 in	(12 x 18) in to (40 x 60) in	39 μin	Mahr Repeat-o-meter Precision Dial Indicator Work Instruction AEW002T-LB, JIS B 7513 (1992), GGG-P-463c-1973
Dial Test Indicator (lever-type)	Up to 1 mm	0.012 mm	Height Master Work Instruction AEW004T-LB, JIS B 7533 (1990), Tyco Spec 117-14 Dial Indicator, Electronic and
Calipers	Up to 200 mm	0.023 mm	Gage Blocks Ring Gages Work Instruction AEW005T-LB, JIS B 7507 (1993), Tyco Spec 117-9 Caliper, Vernier, Dial and Digital

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method and/or Equipment
Micrometer	Up to 25.4 mm	0.0016 mm	Gage Blocks Grade 2 Work Instruction AEW006T-LB, JIS B 7502 (1994), Tyco Spec 117-5 Micrometer, Inch/Metric, Outside, Blade and Flange
Optical Comparator	Up to 300 mm (X,Y)	0.0046 mm	Glass Scale Work Instruction AEW007T-LB, JIS B 7184:1999, Tyco Spec 117-19 Optical Comparators
Video Comparator	Up to 300 mm (X,Y,Z)	0.0052 mm	Glass Scale Gage Blocks Work Instruction AEW007T-LB, JIS B 7184:1999
Digital Height Indicator (Travel-Type)	Up to 50 mm	0.0021 mm	Gage Blocks Work Instruction AEW008T-LB, Tyco Spec. 117-14 Dial Indicator Electronic and Mechanical

Mass

Parameter / Equipment	Range	Expanded Uncertainty of Measurement (+/-) ¹	Reference Standard, Method and/or Equipment
Force Gage	Up to 200 lb·f	0.057 lb·f	Master Weights Work Instruction AEW003T-LB, Tyco Spec 117-70 Force Gages
Scales (0.01 g Resolution)	(0 to 4) kg	0.091 g	Master Weights Class NIST Handbook & ASTM Work Instruction AEW015T-LB, NOM-010-SCFI-1994

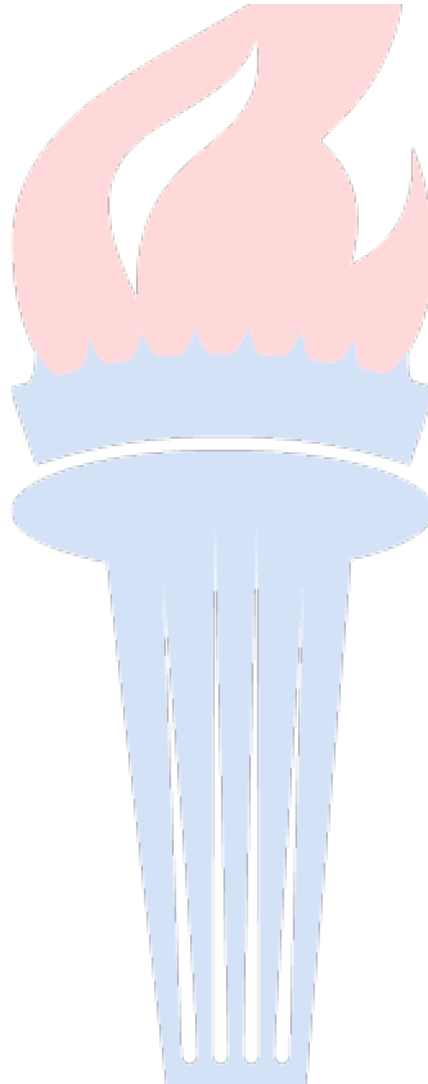
Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. L in uncertainties represents length in inches.
2. The uncertainty associated when calibrating a balance/scale is dependent on local conditions, such as the resolution of the unit being calibrated and the environment in which the balance/scale is operating. The uncertainty listed in the scope here represents the best uncertainty for a balance/scale which the organization typically calibrates in its lab. Since field (on-site) conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected in the field (on-site) than what is reported on the accredited scope.
3. This scope is formatted as part of a single document including the Certificate of Accreditation No. ACT-1173.



Vice President



Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

TE Connectivity
Global Automotive Division
Americas North
Carretera Internacional, KM 1969
Guadalajara-Nogales Km 2
Empalme
Sonora
85340
Mexico

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following scope:

Design and manufacture of electrical interconnecting devices.

For and on behalf of BSI:


Carlos Pitanga, Chief Operating Officer Assurance – Americas

BSI Certificate Number: 514458-003

IATF Number: 0315420



Certification Date: 2018-07-11

Latest Issue: 2018-07-11

Page: 1 of 2

...making excellence a habit.™

Expiry Date: 2021-07-10

This certificate remains the property of BSI and shall be returned immediately upon request.

An electronic certificate can be authenticated [online](http://www.bsigroup.com/ClientDirectory). Printed copies can be validated at www.bsigroup.com/ClientDirectory

To be read in conjunction with the scope above or the attached appendix.

Further clarifications regarding the scope of this certificate and the applicability of IATF 16949 requirements may be obtained by consulting the organization.

IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.

Location

TE Connectivity
Global Automotive Division
Americas North
Carretera Internacional, KM 1969
Guadalajara-Nogales Km 2
Empalme
Sonora
85340
Mexico

Registered Activities

Manufacture of interconnecting devices.

Including the following remote support functions:

TE Connectivity
Global Automotive Division
Americas North
900 Wilshire Boulevard
Suite 150
Troy, MI 48084
Design and Development.

TE Connectivity
Global Automotive Division
Americas North
Fulling Mill Road
Middletown, PA 17057
Design and Development, Product Testing and Customer Service.

TE Connectivity
Global Automotive Division
Americas North
3800 Reidsville Road
Winston-Salem, NC 27102
Design and Development, Product Testing and Calibration, Business Office (Quote Process) and Purchasing.

TE Connectivity
Global Automotive Division
Americas North
20 Esna Park Drive
Markham, Ontario
L3R 1E1 Canada
Design and Development and product testing (optics lab)

TE Connectivity
Global Automotive Division
Americas North
2100 Paxton Street
Harrisburg, PA 17111
Provision of Product Testing to TE Connectivity Manufacturing Sites.

TE Connectivity North Carolina
Distribution Center
8000 Piedmont Triad Parkway
Greensboro, North Carolina 27409
Receiving Inspection, Storage / Inventory.

BSI Certificate Number: 514458-003

IATF Number: 0315420



Certification Date: 2018-07-11

Latest Issue: 2018-07-11

Expiry Date: 2021-07-10

Page: 2 of 2

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IATF Contracted Office: BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.



Section 13

Appearance Approval Report

Not Applicable



Section 14

Sample Product

**Sent in separate package
(if required)**



Section 15

Master Sample

Retained at manufacturing location



Section 16

Checking Aids

Not Applicable



Section 17

Records of Compliance with Customer-Specific Requirements

Informe de la MDS

Sustancias de conjuntos y materiales

Este informe está reservado exclusivamente para uso interno de la industria del automóvil. La distribución a clientes que no pertenecen al sector de la automoción es una violación de las condiciones de uso, y no está permitida sin una autorización por escrito de DXC Technology. El análisis no está permitido.

1. Empresa y nombre de producto

1.1 Datos del proveedor

Nombre ID: **Tyco Electronics GAD [913]**
Número DUNS: **-**
Calle/Código postal: **Amperestr. 12-14**
Nac./Cód. postal/Ciudad: **DE 64625 Bensheim**
No. Proveedor: **-**
Persona de contacto: **IMDS Team (India) Engineering Services**
- Teléfono: **-**
- Número: **-**
- Dirección de correo electrónico: **imds@te.com**

1.2 Identificación del producto

N.º componente/artículo: **917989-6**
Descripción: **22 Position Plug Assembly**
No. Reporte de muestra: **-**
Fecha de reporte de muestra: **-**
No. Orden de Compra: **-**
No. Factura de entrega: **-**
MDS Preliminar: **No**
ID/versión IMDS: **6980661 / 9**
ID de nodo: **821577825**
Estado de la MDS (Fecha de modificación): **Publicado internamente (05/04/2019)**

Informe de la MDS

Sustancias de conjuntos y materiales






































No deben incluirse materiales que están sujetos a prohibiciones legales.
Las sustancias peligrosas, formadas o liberadas durante su uso, también se deben declarar.
Recuerde: La lista GADSL de sustancias que deben ser declaradas

2. Caracterización del componente

N.º componente/artículo: **917989-6**

No. Reporte de muestra: -

Descripción: **22 Position Plug Assembly**ID/versión IMDS: **6980661 / 9**ID de nodo: **821577825**

Nivel de árbol	 Descripción  Descripción  Nombre  Nombre de la sustancia	 N.º componente/artículo  N.º artículo/mat.  N.º material  N.º CAS	   ID/versión IMDS	 Cantidad	   Peso [g]	   Porción [%]	   Porción (desde - hasta) [%]	 Clasif.  GADSL, SVHC	 Marcado de componentes  Reciclado (Consumidor/industr.)  Aplicación [ID]
1	 22 Position Plug Assembly	 917989-6	6980661 / 9		6.62				
└2	 22 Position Plug Housing-Gray	 0-0917987-6	50041859 / 5	1	5.65				 No
└3	 PBT	 703760-	546330958 / 1		5.65			 5.1.b	 No
└4	 Polybutylene terephthalate	 26062-94-2				98			

Nivel de árbol	Descripción Descripción Nombre Nombre de la sustancia	N.º componente/artículo N.º artículo/mat. N.º material N.º CAS	ID/versión IMDS	Cantidad	Peso [g]	Porción [%]	Porción (desde - hasta) [%]	Clasif. GADSL, SVHC	Marcado de componentes Reciclado (Consumidor/industr.) Aplicación [ID]
└4	Cobalt-aluminate-blue-spinel	1345-16-0				0.03	0.01 - 0.05	D	
└4	Further Additives, not to declare	system				1.97	0.95 - 2.99		
└2	Lock Plate 22 Position -	917988-	4632910 / 10	1	0.97				No
└3	PBT	704058-3	162727707 / 4		0.97			5.1.b	No
└4	PBT	-				99			
└4	Further Additives, not to declare	system				1	0 - 2		

Esta es una copia no controlada de un documento creado por IMDS. Fin del



Section 18

Part Submission Warrant



Part Submission Warrant

Part Name HYBRID MK-2 PLUG HSG ASSY 22P Cust. Part Number 85C0834
 Shown on Drawing No. C-917989 Org. Part Number 917989-6
 Engineering Change Level A2 Dated Mar 28, 2011
 Additional Engineering Changes N/A Dated N/A
 Safety and/or Government Regulation Yes No Purchase Order No. N/A Weight (kg) 0.0066
 Checking Aid Number N/A Checking Aid Engineering Change Level N/A Dated N/A

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity / 588115092
 Supplier Name & Supplier/Vendor Code
Carretera Int. Km. 1969 Guadalajara-Nogales Km. 2
 Street Address
Empalme Sonora 85340 México
 City Region Postal Code Country

CUSTOMER SUBMITTAL INFORMATION

Newark Electronics
 Customer Name/Division
Not provided
 Buyer/Buyer Code
Various
 Application

MATERIALS REPORTING

Reporting of all materials, not just Substances of Concern, may be required by certain OEMs or other customers.
 Has customer-required Substances of Concern information been reported? Yes No
 Submitted by IMDS or other customer format: 6980661 / 9
 Are polymeric parts identified with appropriate ISO marking codes? Yes No N/A

REASON FOR SUBMISSION

- Initial submission
- Engineering Change(s)
- Tooling: Transfer, Replacement, Refurbishment, or additional
- Correction of Discrepancy
- Tooling Inactive >than 1 year
- Change to Optional Construction or Material
- Sub-Supplier or Material Source Change
- Change in Part Processing
- Parts produced at Additional Location
- Other - please specify

REQUESTED SUBMISSION LEVEL (Check one)

- Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.
- Level 2 - Warrant with product samples and limited supporting data submitted to customer.
- Level 3 - Warrant with product samples and complete supporting data submitted to customer.
- Level 4 - Warrant and other requirements as defined by customer.
- Level 5 - Warrant with product samples and complete supporting data reviewed at supplier's manufacturing location.

SUBMISSION RESULTS

The results for dimensional measurements material and functional tests appearance criteria statistical process package
 These results meet all design record requirements: YES NO (If NO "C-Explanation Required)
 Mold / Cavity / Production Process Assembly Process

DECLARATION

I affirm that the samples represented by this warrant are representative of our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm that these samples were produced at a production rate of TE Property /24 hours. I also certify that the documented evidence of such compliance is on file and available for review. I have noted any deviation from the declaration below.

EXPLANATION/COMMENTS: P-18-016097. Rate is TE Property.

Is each Customer Tool properly tagged and numbered Yes No N/A

Organization Authorized Signature Julia Avilés Date 13-Aug-2019

Print Name Julia Avilés Phone No. +52 (662) 500 36 80 Fax No. N/A

Title PPAP Technician E-mail julia.avilez@te.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)
 Part warrant Disposition: Approved Rejected Other

Customer Signature _____ Date _____

Print Name _____ Customer Tracking Number (optional) _____



Section 18a

Bulk Material Requirements

Not Applicable