Table of Contents

PPAP Package for:

Customer Name: Newark Electronics
Customer Part Number: 20J2959
(TE Connectivity Part Number): 8-968971-2
12/12/2019

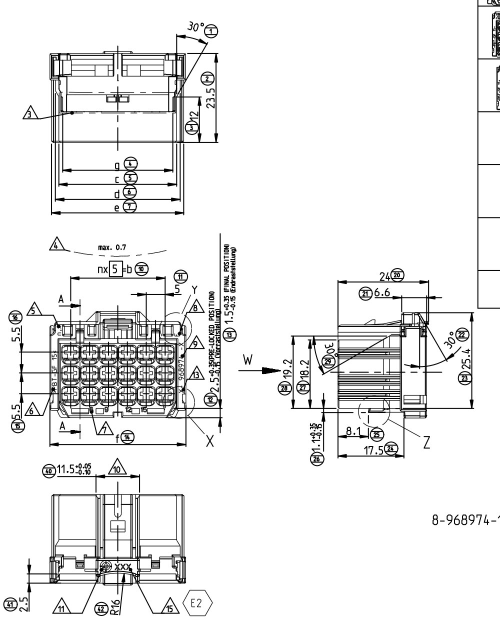
Nondisclosure Agreement

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



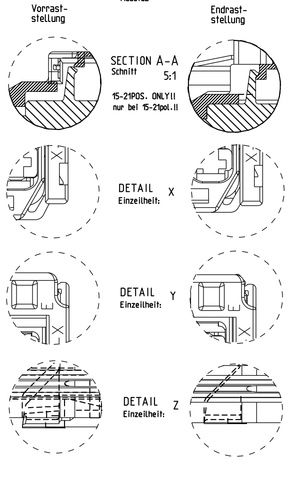
8-968974-1 AS SHOWN IN PRE-LOCKED POSITION
wie gezeichnet in Vorraststellung

	n	b	c +0.1/−0.3	d +0.4/−0.3	e +0.2/−0.5	f	g±0.25	WEIGHT Gewicht	NUMBER OF WAYS Polzahl
	6	30	36.2	38	39.9	41	34.2	11.6g	21
	5	25	31.2	33	34.9	36	29.2	10.3g	18
	4	20	26.2	28	29.9	31	15.5	9.0g	15
	3	15	21.2	23	24.9	26	10.5	7.7g	12
	2	10	16.2	18	19.9	21	5.5	6.3g	9
	1	5	11.2	13	14.9	16	4.5	4.9g	6
M1:1	n	b	c +0.1/−0.3	d +0.4/−0.3	e +0.2/−0.5	f	g±0.25	WEIGHT Gewicht	NUMBER OF WAYS Polzahl

PRE-LOCKED AND FINAL POSITION
Vorrast- und Endraststellung

SLIDING DISTANCE: 1mm
Verschiebeweg: 1mm

PRE-LOCKED POSITION Vorraststellung — SCALE 5:1 Masstab — FINAL POSITION Endraststellung



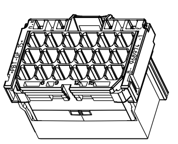
MATED WITH / passend zu: 1	PROJEKT NR. A97-52046	LOC AI	DIST -

REVISIONS

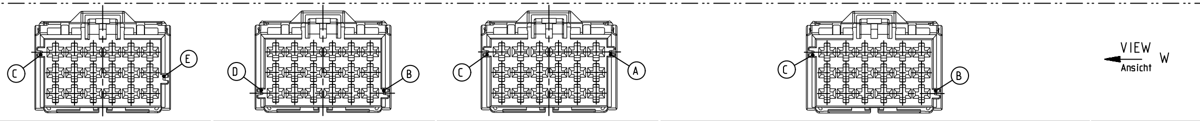
P	LTR	DESCRIPTION	DATE	DWN	APVD
	D6	ADD PRODUCT SPEC; BECAUSE PN IS SUPERSEDED	19NOV2015	HO.	SCHO
	E	CHANGE OF BASE MATERIAL	29SEP2018	HO.	SCHO
	E1	PART REV. IN CHART ON SHEET 2 OF 2 REVISED	29NOV2018	MAH.	SCHO
	E2	SEE PCN E-19-002255	12FEB2019	MAH.	SCHO

NOTES
Bemerkungen

1. MATING CONNECTOR FOR AMP MCP 2.8 HOUSING SEE DRAWINGS 1355072 (TAB HOUSINGS), [964562 (TAB HOUSINGS)] 966140 (TAB HEADER) 114-18085-025 (INTERFACE-DRAWING)
   Gegenstecker fuer AMP MCP 2.8 Gehaeuse siehe Zeichnungen 1355072 (Flachstecker-Gehaeuse) [964562 (Flachstecker-Gehaeuse)], 966140 (Messerleisten), 114-18085-025 (Ausfuehrungsvorschrift)
2. CAVITIES MATING WITH AMP MCP 2.8 CONTACTS (WITHOUT SWS, MAX. WIRE SIZE: 2.5mm² FLR) - SEE PRODUCT GROUP DRAWING: 1355036
   Kontaktkammern passend fuer AMP MCP 2.8 Kontakte (ohne EDS. max. Leitungsquerschnitt: 2.5mm² FLR) - siehe Produktgruppenzeichnung : 1355036
3. DESIGN DEPENDS ON NUMBER OF WAYS
   Aussehen je nach Polzahl unterschiedlich
4. WARPAGE TO ... PERMITTED
   Verzug bis ... zulaessig
5. MOULD CAVITY-MARKING = X
   SERIAL MOULD-NUMBER = n. (if n>1 only)
   Nestmarkierung = X
   Serienwerkzeug-Nr. = n (nur wenn n>1)
6. MATERIAL-MARKING ACC. TO VDA 260
   Werkstoffkennzeichnung nach
7. CAVITY-MARKING
   Kammerbezeichnung
8. THE REVISION STATUS OF THE MOULD
   Aenderungszustand des Werkzeuges
9. TE PARTNUMBER
   TE Bestell-Nr. Teil
10. WARPAGE TO 11.3 PERMITTED
    Verzug bis 11.3 zulaessig
11. PRODUCTION-DATE
    Produktionsdatum
13. PACKAGING: BULK PACKAGING IN CORRUGATED BOX - INDICATED BY PRE-DASH-NO.s 8-, 7-, 6-, 5-; THESE PRE-DASH-NO.s ARE ON PART NOW:
    Verpackung: Schuettgut in Versandkarton - gekennzeichnet durch Vorstrichzahlen 8-, 7-, 6-, 5-; diese Vorstrichzahlen sind jetzt auch am Teil!
14. MALFUNCTION CAUSED BY LACQUER IS NOT COVERED BY TE WARRANTY
    Funktionbeeintraechtigung durch Lackieren liegt nicht im Einfluss und Gewaehrleistungsumfang von TE
15. (E2) COMPANY LOGO
    Firmenzeichen



3D-MODEL (18POS.; CODING A)
2:1



CODING / Kodierung D
RIB / Rippe: C-E

CUSTOMER PART NO. Kunden-Teile-Nr.	13 TE ORDER-NO TE Bestell-Nr.	REV	COLOUR Farbe
	5-968975-1	E	CLARET VIOLET Bordeauxviolett
	5-968974-1	E	
	5-968973-1	E	
	5-968972-1	E	
	5-968971-1	E	
	5-968970-1	E	

CODING / Kodierung C
RIB / Rippe: B-D

CUSTOMER PART NO. Kunden-Teile-Nr.	13 TE ORDER-NO TE Bestell-Nr.	REV	COLOUR Farbe
	6-968975-1	E	LIGHT BLUE Lichtblau
	6-968974-1	E	
	6-968973-1	E	
	6-968972-1	E	
	6-968971-1	E	
	6-968970-1	E	

CODING / Kodierung B
RIB / Rippe: A-C

CUSTOMER PART NO. Kunden-Teile-Nr.	13 TE ORDER-NO TE Bestell-Nr.	REV	COLOUR Farbe
	7-968975-1	E	Nature natur
	7-968974-1	E	
	7-968973-1	E	
	7-968972-1	E	
	7-968971-1	E	
	7-968970-1	E	

CODING / Kodierung A
RIB / Rippe: B-C

MECHAN. CODING / mechan. Kodierung

CUSTOMER PART NO. Kunden-Teile-Nr.	13 TE ORDER-NO TE Bestell-Nr.	REV	COLOUR Farbe	CUSTOMER PART NO. Kunden-Teile-Nr.	13 TE ORDER-NO TE Bestell-Nr.	REV	COLOUR Farbe	POS.	DESCRIPTION Benennung Einzelteil			MATERIAL Werkstoff
	8-968975-2	E	GREY grau		8-968975-1	E	BROWN braun	1	AMP MCP 2.8 HOUSING AMP MCP 2.8 Gehäuse	21	POS. polig	PBT-GF 15
	-	-	- -		8-968974-1	E	GREY grau	1		18	POS. polig	
	8-968973-2	E	GREY grau		8-968973-1	E	VIOLET violett	1		15	POS. polig	
	8-968972-2	E	GREY grau		8-968972-1	E	GREEN gruen	1		12	POS. polig	
	8-968971-2	E	GREY grau		8-968971-1	E	Yellow gelb	1		9	POS. polig	
	8-968970-2	E	GREY grau		8-968970-1	E	GENTIAN BLUE Enzianblau	1		6	POS. polig	

THIS DRAWING IS A CONTROLLED DOCUMENT.

DWN	R. Huebner 19JAN1998
CHK	J. Hass 19JAN1998
APVD	M. Bleicher 18JAN2008
PRODUCT SPEC	108-18619-3
APPLICATION SPEC	-
WEIGHT	SEE TABLE
DIMENSIONS	mm
TOLERANCES UNLESS OTHERWISE SPECIFIED	0 PLC ±, 1 PLC ±, 2 PLC ±, 3 PLC ±, 4 PLC ±, ANGLES ±2°
MATERIAL	SEE PARTS LIST -
FINISH	SEE PARTS LIST -
NAME	PRODUCT GROUP DRAWING FOR: AMP MCP 2.8 HSG. 6-21POS. WITH SECONDARY LOCKING DEVICE / Produkt-Gruppen-Zeichnung fuer: AMP MCP 2.8 Gehaeuse, 6-21polig mit zweiter Kontaktsicherung
SIZE	A1
CAGE CODE	00779
DRAWING NO	C-1355073
RESTRICTED TO	-
SCALE	2:1
SHEET	1 OF 2
REV	E2

TE Connectivity

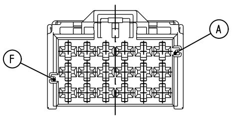
CUSTOMER DRAWING

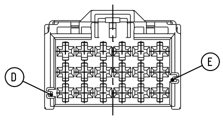
MATED WITH / passend zu	PROJEKT NR.	LOC	DIST
1	A97-52046	AI	-

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	-	SEE SHEET 1 -	-	-	-

ADDITIONAL CODINGS / Zusaetzliche Kodierungen





CODING / Kodierung F				MECHANICAL CODING: mechanische Kodierung:	
RIBS / Nuten: A-F					
	9-968975-2	E	ORANGE	21 POS. pol.	PBT-GF15
	9-968974-2	E		18 POS. pol.	
				15 POS. pol.	
	9-968972-2	E		12 POS. pol.	
				9 POS. pol.	
	9-968970-2	E		6 POS. pol.	
CUSTOMER PART NUMBER Kunden-Einzelteil-Nummer	TE ORDER-NO. TE Bestell-Nr.	REV.		DESCRIPTION Benennung Einzelteil	MATERIAL Werkstoff

CODING / Kodierung E				MECHANICAL CODING: mechanische Kodierung:	
RIBS / Nuten: E-D					
	4-968975-1	E	EMERALD GREEN	21 POS. pol.	PBT-GF15
	4-968974-1	E		18 POS. pol.	
				15 POS. pol.	
	4-968972-1	E		12 POS. pol.	
				9 POS. pol.	
	4-968970-1	E		6 POS. pol.	
CUSTOMER PART NUMBER Kunden-Einzelteil-Nummer	TE ORDER-NO. TE Bestell-Nr.	REV.		DESCRIPTION Benennung Einzelteil	MATERIAL Werkstoff

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±-
2 PLC ±-
3 PLC ±-
4 PLC ±-
ANGLES ±2°

MATERIAL: SEE PARTS LIST -
FINISH: SEE PARTS LIST -

DWN R. Huebner 19JAN1998
CHK J. Hass 19JAN1998
APVD M. Bleicher 18JAN2008
PRODUCT SPEC -
APPLICATION SPEC -
WEIGHT SEE TABLE

TE Connectivity

NAME: PRODUCT GROUP DRAWING FOR: AMP MCP 2.8 HSG. 6-21POS. WITH SECONDARY LOCKING DEVICE
Produkt-Gruppen-Zeichnung fuer: AMP MCP 2.8 Gehaeuse, 6-21polig mit zweiter Kontaktsicherung

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1355073	-

CUSTOMER DRAWING | SCALE 2:1 | SHEET 2 OF 2 | REV E2

Section 2

Engineering Change Documents

Product Change Notification

Current Date: 16-Oct-2019

TE Connectivity

Product Change Notification: P-19-017986 **PCN Date:** 28-SEP-19

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:
MCP2.8 GEH ASSY 9P

Description of Changes
Manufacturing location change. Following Part Numbers will be transferred from TE Steinach to TE Oostkamp.

Reason for Changes:	
Dear Customer,we hereby inform you about a tools and/or processes transfer to improve our SupplyChain towards our customers as well as our Footprint amendment within TE.The transfer follows a strict procedure,which fully maintains quality,ability to supply and form-fit-function of the concerned products.The receiving manufacturing location operates under a certified QualityManagementSystem in accordance with standard automotive requirements and the respective customer specific requirements.A TE-internal release test based on the relevant part specifications defined by ProductEngineering will be executed before delivery.This process has been reviewed and shared upfront with the respective OEMs.Upon request,a PPAP Level1/VDA Level0 will be available,or as otherwise agreed.If you require such a PPAP,please notify the responsible TE Sales Contact within 14 calendar days after receipt of this PCN.For further details please get in touch with your respective Sales or CustomerServiceAccount.	
Estimated Dates:	
Last Order Date (Obsolete Parts Only):	**First Date To Ship** (Changed Parts Only):
	25-OCT-2019
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
1-2314802-1	NO					
5-968971-1	NO					
6-968971-1	NO					
7-968971-1	NO					
8-968971-1	NO					
8-968971-2	NO					

Section 3

Customer Engineering Approval

Not Applicable

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

Not Applicable

Section 9

Dimensional Results

Production Part Approval - Dimensional Results

ORGANIZATION: *TE Connectivity Belgium bvba*	PART NUMBER: X-968971-X
SUPLLIER/VENDOR CODE:	PART NAME: AMP MCP2.8 housing 9P
INSPECTION FACILITY: *QS*	DESIGN RECORD CHANGE LEVEL: E2
	ENGINEERING CHANGE DOCUMENTS:

ITEM	DIMENSION/SPECIFICATION	SPECIFICATION/ LIMITS	TEST DATE	QTY TESTED	ORGANIZATION MEASUREMENT RESULTS (DATA)	OK	NOT OK
	Drawing : C-1355073 Rev. E2 dd 12/02/2019				Tool : 21-1018517		
1	30°	±2°	9/10/19	Cav. 2.1	29.44...30.01	x	
				Cav. 2.2	28.92...29.46	x	
				Cav. 2.3	29.02...29.27	x	
				Cav. 2.4	29.38...29.56	x	
2	23.5	±0.34	9/10/19	Cav. 2.1	23.50...23.58	x	
				Cav. 2.2	23.52...23.58	x	
				Cav. 2.3	23.50...23.56	x	
				Cav. 2.4	23.51...23.60	x	
3	12	±0.27	9/10/19	Cav. 2.1	12.15...12.17	x	
				Cav. 2.2	12.12...12.15	x	
				Cav. 2.3	12.09...12.13	x	
				Cav. 2.4	12.17...12.18	x	
4	g=5.5	±0.25	9/10/19	Cav. 2.1	5.51	x	
				Cav. 2.2	5.52	x	
				Cav. 2.3	5.53	x	
				Cav. 2.4	5.53	x	
5	c=16.2	+0.1/-0.3	9/10/19	Cav. 2.1	15.98...16.19	x	
				Cav. 2.2	16.02...16.20	x	
				Cav. 2.3	16.02...16.22	x	
				Cav. 2.4	15.97...16.19	x	
6	d=18	+0.4/-0.3	9/10/19	Cav. 2.1	17.81...17.95	x	
				Cav. 2.2	17.73...17.90	x	
				Cav. 2.3	17.77...17.91	x	
				Cav. 2.4	17.73...17.89	x	
7	e=19.9	+0.2/-0.5	9/10/19	Cav. 2.1	19.67	x	
				Cav. 2.2	19.67	x	
				Cav. 2.3	19.66	x	
				Cav. 2.4	19.70	x	
8-9	Not on drawing						
10	b=10	±0.14	9/10/19	Cav. 2.1	10.00...10.04	x	
				Cav. 2.2	9.99...10.01	x	
				Cav. 2.3	9.96...10.01	x	
				Cav. 2.4	9.96...10.00	x	
11	5	±0.12	9/10/19	Cav. 2.1	4.94...5.00	x	
				Cav. 2.2	4.97...5.01	x	
				Cav. 2.3	4.97...5.00	x	
				Cav. 2.4	4.94...5.00	x	
12	2.5	+0.35/-0.15	9/10/19	Cav. 2.1	2.56...2.67	x	
				Cav. 2.2	2.55...2.63	x	
				Cav. 2.3	2.57...2.66	x	
				Cav. 2.4	2.58...2.68	x	

based on CFG-1003
march 2006

Signature

Title
PPAP Admin

Date :21/10/2019

Production Part Approval - Dimensional Results

ORGANIZATION: *TE Connectivity Belgium bvba*	PART NUMBER: X-968971-X
SUPLLIER/VENDOR CODE:	PART NAME: AMP MCP2.8 housing 9P
INSPECTION FACILITY: *QS*	DESIGN RECORD CHANGE LEVEL: E2
	ENGINEERING CHANGE DOCUMENTS:

ITEM	DIMENSION/SPECIFICATION	SPECIFICATION/ LIMITS	TEST DATE	QTY TESTED	ORGANIZATION MEASUREMENT RESULTS (DATA)	OK	NOT OK
13	1.5	+0.35/-0.15	9/10/19	Cav. 2.1	1.57...1.63	x	
				Cav. 2.2	1.61...1.65	x	
				Cav. 2.3	1.60...1.65	x	
				Cav. 2.4	1.54...1.62	x	
14	f=21	±0.2	9/10/19	Cav. 2.1	20.85...21.17	x	
				Cav. 2.2	20.83...21.05	x	
				Cav. 2.3	20.83...21.10	x	
				Cav. 2.4	20.83...21.07	x	
15	5.5	±0.12	9/10/19	Cav. 2.1	5.47...5.50	x	
				Cav. 2.2	5.48...5.49	x	
				Cav. 2.3	5.47...5.50	x	
				Cav. 2.4	5.47...5.49	x	
16	5.5	±0.12	9/10/19	Cav. 2.1	5.46...5.48	x	
				Cav. 2.2	5.46...5.48	x	
				Cav. 2.3	5.47...5.48	x	
				Cav. 2.4	5.46...5.48	x	
17-19	Not on drawing						
20	24	±0.34	9/10/19	Cav. 2.1	23.89	x	
				Cav. 2.2	23.99	x	
				Cav. 2.3	23.94	x	
				Cav. 2.4	23.82	x	
21	6.6	±0.24	9/10/19	Cav. 2.1	6.59...6.60	x	
				Cav. 2.2	6.58...6.59	x	
				Cav. 2.3	6.57...6.61	x	
				Cav. 2.4	6.58...6.59	x	
22	30°	±2°	9/10/19	Cav. 2.1	31.81	x	
				Cav. 2.2	30.85	x	
				Cav. 2.3	31.73	x	
				Cav. 2.4	31.45	x	
23	25.4	±0.34	9/10/19	Cav. 2.1	25.30...25.32	x	
				Cav. 2.2	25.28...25.29	x	
				Cav. 2.3	25.30...25.32	x	
				Cav. 2.4	25.26...25.30	x	
24	17.5	±0.3	9/10/19	Cav. 2.1	17.52...17.54	x	
				Cav. 2.2	17.48...17.51	x	
				Cav. 2.3	17.46...17.50	x	
				Cav. 2.4	17.52...17.54	x	
25	8.1	±0.24	9/10/19	Cav. 2.1	8.26	x	
				Cav. 2.2	8.27	x	
				Cav. 2.3	8.28	x	
				Cav. 2.4	8.28	x	
26	1.1	+0.35/-0.15	9/10/19	Cav. 2.1	1.29	x	
				Cav. 2.2	1.25	x	
				Cav. 2.3	1.30	x	
				Cav. 2.4	1.38	x	

Production Part Approval - Dimensional Results

ORGANIZATION: *TE Connectivity Belgium bvba*	PART NUMBER: X-968971-X
SUPLLIER/VENDOR CODE:	PART NAME: AMP MCP2.8 housing 9P
INSPECTION FACILITY: *QS*	DESIGN RECORD CHANGE LEVEL: E2
	ENGINEERING CHANGE DOCUMENTS:

ITEM	DIMENSION/SPECIFICATION	SPECIFICATION/ LIMITS	TEST DATE	QTY TESTED	ORGANIZATION MEASUREMENT RESULTS (DATA)	OK	NOT OK
27	18.2	±0.2	9/10/19	Cav. 2.1	18.09...18.13	x	
				Cav. 2.2	18.09...18.11	x	
				Cav. 2.3	18.09...18.11	x	
				Cav. 2.4	18.09...18.11	x	
28	19.2	±0.2	9/10/19	Cav. 2.1	19.12...19.16	x	
				Cav. 2.2	19.12...19.14	x	
				Cav. 2.3	19.10...19.17	x	
				Cav. 2.4	19.12...19.15	x	
29	30°	±2°	9/10/19	Cav. 2.1	30.72	x	
				Cav. 2.2	31.32	x	
				Cav. 2.3	31.50	x	
				Cav. 2.4	31.00	x	
30-39	Not on drawing						
40	11.5	+0.05/-0.20	9/10/19	Cav. 2.1	11.36	x	
				Cav. 2.2	11.40	x	
				Cav. 2.3	11.39	x	
				Cav. 2.4	11.32	x	
41	2.5	±0.21	9/10/19	Cav. 2.1	2.41...2.44	x	
				Cav. 2.2	2.41...2.44	x	
				Cav. 2.3	2.42...2.43	x	
				Cav. 2.4	2.41...2.43	x	
42	R16	±0.2	9/10/19	Cav. 2.1	15.80	x	
				Cav. 2.2	15.96	x	
				Cav. 2.3	16.05	x	
				Cav. 2.4	15.80	x	

Signature

Title
PPAP Admin

Date :21/10/2019

Section 10

Material, Performance Test Results

Production Part Approval - Material Test Results

ORGANIZATION: *TE Connectivity Belgium bvba*	PART NUMBER: 8-968971-2
SUPLLIER/VENDOR CODE:	PART NAME: AMP MCP2.8 housing 9P Yellow
INSPECTION FACILITY: *QS*	DESIGN RECORD CHANGE LEVEL:
	ENGINEERING CHANGE DOCUMENTS:

ITEM	DIMENSION/SPECIFICATION	SPECIFICATION/ LIMITS	TEST DATE	QTY TESTED	ORGANIZATION MEASUREMENT RESULTS (DATA)	OK	NOT OK
	Material						
	PBT GF 15				see certificate 1573472-1_MT		
	Colour : Yellow				see certificate 2-705184-9_MT		

based on CFG-1004
march 2006

Signature Title

BASF
We create chemistry

Certificate of Analysis

BASF SE

Please note that the certificates of analysis are also conveniently available on your BASF online portal.

Fax No 003250832450

TE Connectivity Belgium BVBA

SIEMENSLAAN 14 14

8020 OOSTKAMP

België

2019-09-12

RBU Performance Materials Europe

Certificate No 7200

Inspection Certificate 3.1 according to EN 10204

ULTRADUR® B 4300 G3 High Speed UN
COLORED POLYBUTYLENE TEREPHTHALATE
1000KG Fibreboard IBC
Purchase Order/Customer Product#
2709354407
1573472-1

Material	54162012	
Order	3015985532	000010
Delivery	5001422940	000010
Lot	04435304N0	
Lot/Qty	1000.000	KG
Total	1000.000	KG
Transport	ON52RN	

Characteristic Method	Specification	Result	Unit
Viscosity number acc. to ISO 1628 (Phenol/Dichlorb.1:1)	95,0 - 105,0	97,7	ml/g
Reinforcing filler (glass / mineral) according to ISO 3451	12,5 - 17,5	14,8	%

The above results are means of individual test values determined on samples taken during production of the lot.
Dr.Axel Ebenau, inspection representative
If you have any further questions please send an E-mail to:
EPME-Certificates@basf.com

TE Connectivity Belgium BVBA
Siemenslaan 14
B-8020 Oostkamp
Belgium
Tel.: 0032-508 322 07
Fax: 0032-508 323 91

Delivery address
Tyco Electronics Belgium EC bvba
Siemenslaan 14
B-8020 Oostkamp
Belgium

Your order no.: 2709532284
Our order no.: 19G24088 / 16.09.2019
No. of Del.: SH190024899 / 19.09.2019
Your Account No.: 11114

Our Supplier Num.: 105759
Cust. Part Number: 2-0705184-9
Cust Part Desc.: rapsgelb, rape yellow

Test Certificate 3.1

[acc. EN :10204]

Article-No.	Designation	Quantity	Charge no	Charge date
2/7335	MB PE YELLOW	25.00 kg	1904G069614	29/04/2019

PROPERTIES

- Grain Type: Cylindrical Granules
- Other properties: see technical and safety datasheet

*1 Color measurement spectrophotometer to DIN 6174 / Light D65 / 10 °
*2 Determination of bulk density in g / l to EN ISO 60
*3 Determination of the MVR in cm^3/10min according to DIN EN ISO 1133-1
*4 Visual inspection in accordance with DIN 6173 part 1 and 3

Charge no	Analysis Description	Minimum Value	Maximum Value	Result
1904G069614	*2/ Bulk Density	551	609	609
	*4/ Visual check			Freigabe/Release

Typing mistakes and errors not excluded!

HM 4.03 004/02
02.01.08

The above mentioned product was produced and tested with all reasonable care and released to be despatched .

Karlstein , date 19.09.2019
Inspection office: Head of Quality Management / Frank Hahndorff This form
is created automatically and needs no signatur

Section 11

Initial Process Studies

Not Applicable

Section 12

Qualified Laboratory Documentation

CERTIFICATE

This is to certify that

TE Connectivity Belgium BVBA

Siemenslaan 14
8020 Oostkamp
Belgium

has implemented and maintains a **Quality Management System**.

Scope:
Design and manufacturing of electronic and mechatronic components and connector systems

An audit, conducted and documented in a report, has verified that this quality management system fulfills the requirements of the following International Automotive Standard:

IATF 16949:2016

(with product design)

Certificate registration no.	515109 IATF16
Main certificate registration no.	515099 IATF16
Issuing date	2017-12-04
This certificate is valid until	2020-12-03
Date of revision	2018-12-20
IATF No.	0280557

2-IAO-QMC-01001

For and on behalf of DQS

Stefan Heinloth
Managing Director, DQS GmbH

Michael Drechsel
Managing Director, DQS Holding GmbH

IATF Contract Office: DQS Holding GmbH, Konrad-Adenauer-Allee 8-10, 61118 Bad Vilbel, Germany
Issuing Office: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main, Germany

2017-12-18

Annex to certificate registration no.: 515109 IATF16
IATF-No.: 0280557

TE Connectivity Belgium BVBA

Siemenslaan 14
8020 Oostkamp
Belgium

2-IAO-QMC-01001

Remote Location	Scope
515114 **TE Connectivity Solutions GmbH** **Amperestr. 3** **9323 Steinach** **Switzerland**	Logistics
515099 **TE Connectivity Germany GmbH** **Amperestr. 12-14** **64625 Bensheim** **Germany**	Continuous Improvement, Customer Service, Human Resource, Internal Audit Management, Management Review, Policy making, Product Design, Process Design, Production equipment development, Purchasing, Quality system management, Sales, Supplier management
515116 **TE Connectivity Germany GmbH** **Amperestr. 12-14** **73499 Wört** **Germany**	Process Design, Warehousing
515103 **TE Connectivity Germany GmbH** **Amperestr. 11** **91550 Dinkelsbühl** **Germany**	Production Equipment Development, Process Design
515110 **Tyco Electronics France SAS** **1 rue Ampère** **95300 Pontoise** **France**	Customer Service, Product Design, Sales
515514 **Tyco Electronics AMP Italia Products S.r.l.** **Corso Fratelli Cervi 15** **10093 COLLEGNO TORINO** **Italy**	Customer Service; Sales

Annex to certificate registration no.: 515109 IATF16
IATF-No.: 0280557

TE Connectivity Belgium BVBA

Siemenslaan 14
8020 Oostkamp
Belgium

2-IAO-QMC-01001

Remote Location	Scope
525517 **TE Connectivity Morocco SARL** **I Lot 60, Zone Franche Tangier** **90 000 Tangier** **Morocco**	Warehousing
525515 **TE Connectivity Tunisia office** **Immeuble Lake Forum, 4 ème étage 5 rue de la feuille d'érable** **1053 Tunis** **Tunisia**	Warehousing

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

MDS Report
Substances of assemblies and materials

1. Company and Product Name

1.1 Supplier Data

Name [ID]:	**Tyco Electronics GAD [913]**
DUNS Number:	**-**
Street/Postal Code:	**Amperestr. 12-14**
Nat./ZipCode/City:	**DE 64625 Bensheim**
Supplier Code:	**-**
Contact Person:	**IMDS Team (India) Engineering Services**
- Phone:	**-**
- Fax No.:	**-**
- E-Mail Address:	**imds@te.com**

1.2 Product Identification

Part/Item No.:	**8-968971-2**
Description:	**AMP MCP 2.8 Hsg, 9 Pos With Sec. Locking Device**
Report No.:	**-**
Date of Report:	**-**
Purchase Order No.:	**-**
Bill of Delivery No.:	**-**
Preliminary MDS:	**No**
IMDS ID / Version:	**11371391 / 12**
Node ID:	**819228824**
MDS Status (Change Date):	**Internally released (03/28/2019)**

MDS Report

Substances of assemblies and materials

Materials which are subject to legal prohibitions must not be included!
Dangerous substances formed or released during use must also be declared
Please note: GADSL list for substances that require declaration

2. Characterization of the Component

Part/Item No.:	**8-968971-2**	Report No.:	**-**
Description:	**AMP MCP 2.8 Hsg, 9 Pos With Sec. Locking Device**	IMDS ID / Version:	**11371391 / 12**
		Node ID:	**819228824**

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
1	AMP MCP 2.8 Hsg, 9 Pos With Sec. Locking Device	8-968971-2	11371391 / 12		6.3				
├2	Hsg 9 Pos Coading "A"-Slate Grey			1	4.406				Yes
├3	PBT-GF15	1573472-1 + 1573728-1	808124170 / 1		4.406			5.1.a	No
├4	PBT-GF15	1573472-1	127148686 / 2			97.5		5.1.a	

Tree Level	Description / Article Name / Name / Substance name	Part/Item No. / Item- /Mat.-No. / Material-No. / CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. / GADSL, SVHC	Parts Marking / Recyclate (Indust./Consumer) / Application [ID]
5	GF-Fibre	-				15			
5	Further Additives, not to declare	system				1			
5	PBT	-				84			
4	PE Colour Masterbatch	1573728-1	611703738 / 1			2.5	2 - 3	5.1.b	
5	Pigment portion, not to declare	system				4			
5	Titanium-dioxide	13463-67-7				27			
5	Carbon black	1333-86-4				6			
5	PE	-				63			
2	Sec. Locking Device-Slate Grey			1	1.894				Not Applicable
3	PBT-GF15	1573472-1 + 1573728-1	808124170 / 1		1.894			5.1.a	No
4	PBT-GF15	1573472-1	127148686 / 2			97.5		5.1.a	
5	GF-Fibre	-				15			
5	Further Additives, not to declare	system				1			
5	PBT	-				84			
4	PE Colour Masterbatch	1573728-1	611703738 / 1			2.5	2 - 3	5.1.b	
5	Pigment portion, not to declare	system				4			
5	Titanium-dioxide	13463-67-7				27			
5	Carbon black	1333-86-4				6			
5	PE	-				63			

Tree Level	Description Article Name Name Substance name	Part/Item No. Item- /Mat.-No. Material-No. CAS No.	IMDS ID / Version	Quantity	Weight [g]	Portion [%]	Portion (from - to) [%]	Classif. GADSL, SVHC	Parts Marking Recyclate (Indust./Consumer) Application [ID]
This is an uncontrolled copy of a document created by IMDS. End of the report.									

Section 18

Part Submission Warrant

DaimlerChrysler Ford GM

Part Submission Warrant

Part Name	MCP2.8 GEH ASSY 9P	Cust. Part Number	20J2959
Shown on Drawing No.	C-1355073	Org. Part Number	8-968971-2
Engineering Change Level	E2	Dated	12/02/2019
Additional Engineering Changes	N/A	Dated	N/A
Safety and/or Government Regulation	☐ Yes ☑ No	Purchase Order No.	N/A
Weight (kg)	0.0063		
Checking Aid Number	N/A	Checking Aid Engineering Change Level	N/A
Dated	N/A		

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity Belgium BVBA / 370654167
Supplier Name & Supplier/Vendor Code

Siemenslaan 14
Street Address

Oostkamp | | 8020 | Belgium
City | Region | Postal Code | Country

CUSTOMER SUBMITTAL INFORMATION

Newark Electronics
Customer Name/Division

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: 11371391 / 12

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: P-19-017986

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" - Explanation Required)
Mold / Cavity / Production Process: Production Process

DECLARATION

I affirm that the samples represented by this warrant are representative or our parts, which were made by a process that meets all Production Part Approval Process Manual 4th Edition Requirements. I further affirm the these samples were produced at a production rate of Proprietary /1 hour.
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-19-017986 Manufacturing Location Change from TE Steinach to TE Oostkamp

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

Organization Authorized Signature: *Luis Casas* Date: 12/12/2019

Print Name: Luis Casas Phone No.: N/A Fax No.: N/A

Title: PPAP Technician E-mail: alberto.casas@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