Part Submission Warrant

2021-156016

Part Name: ***Contact 0,64mm, Female, GenY, Unsealed Appl.*** Cust. Part Number:

Shown on Drawing Number: ***C-1456574 FORD*** Org.Part Number: ***1-1456574-8***

Engineering Change Level: ***C1*** Dated: ***31/01/2019***

Additional Engineering Changes: Dated:

Safety and/or Government Regulation: ☐ Yes ☑ No Purchase Order No. Weight (kg): ***0.0011***

Checking Aid Number: Checking Aid Engineering Change Level: Dated:

ORGANIZATION MANUFACTURING INFORMATION

TE Connectivity Belgium bv ***/370 654 167***
Organization Name and Supplier Code

Siemenslaan 14
Street Address

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

CUSTOMER SUBMITTAL INFORMATION

Nursan Otomotiv Ltd.
Customer Name/Division

Buyer/Buyer Code

Ford
Application

MATERIALS REPORTING

Has customer-required Substance of Concern information been reported ☐ Yes ☑ No ☐ n/a

Submitted by IMDS or other customer format *586990861 / 5*

Are polymeric parts identified with appropriate ISO marking codes? ☑ Yes ☐ No ☐ n/a

REASON FOR SUBMISSION (Check at least one)

- ☑ 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 measurement ☑ 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 *Stamping - 2 Track Die*

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 the production rate of 300.000/8 hours I also certify that documented evidence of such compliance is on file and is available for review. I have noted any deviations from this declaration below.

EXPLANATION/COMMENTS

Is each Customer Tool properly tagged and numbered? ☐ Yes ☐ No

Organization Authorized Signature Date ***26/05/2021***

Print Name ***Petra Rolly*** Phone No. ***0032 50 83 2629*** Fax

Title ***PPAP Administrator*** Email petra.rolly@TE.com

FOR CUSTOMER USE ONLY (IF APPLICABLE)

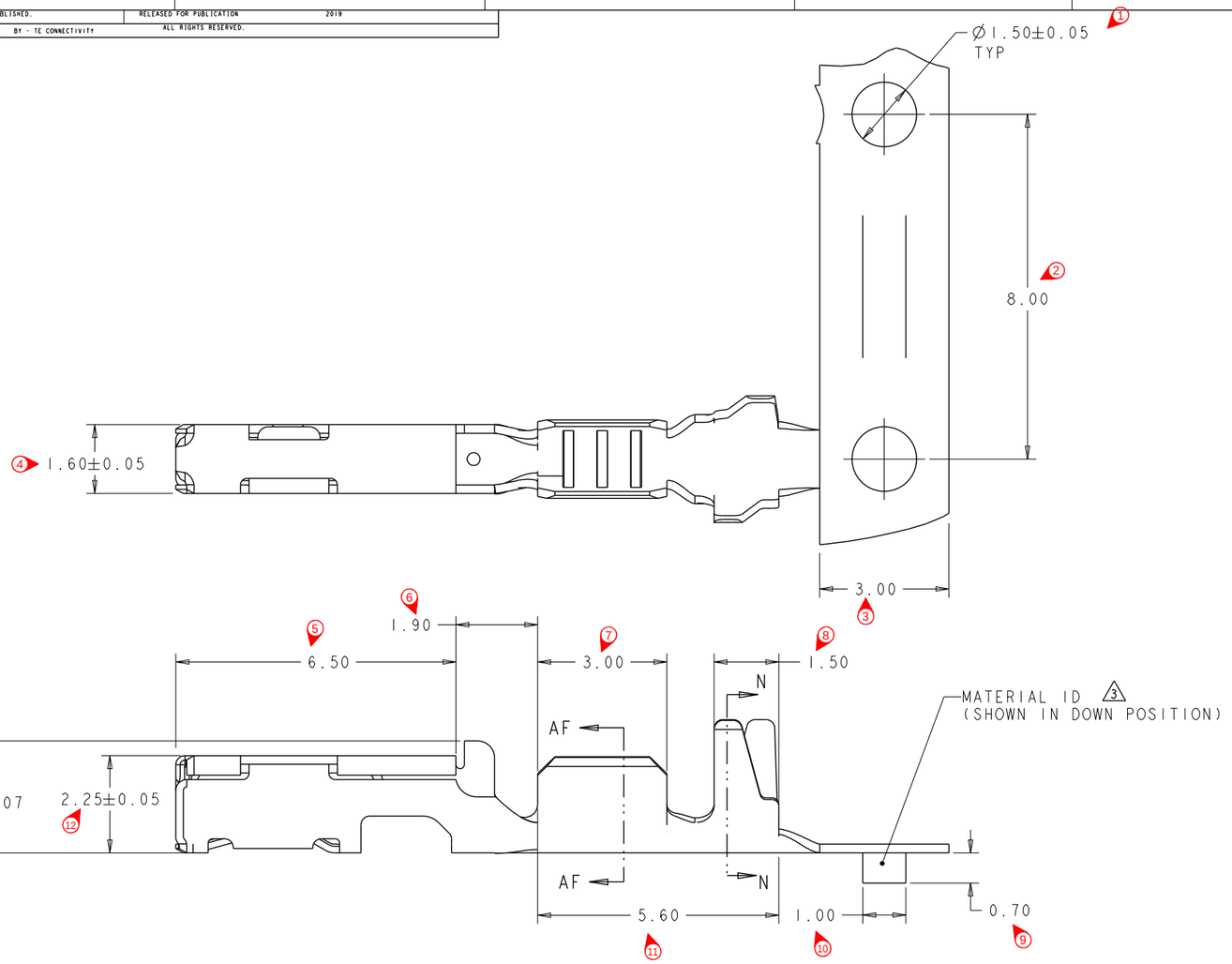
PPAP Warrant Disposition : ☐ Approved ☐ Rejected ☐ Other

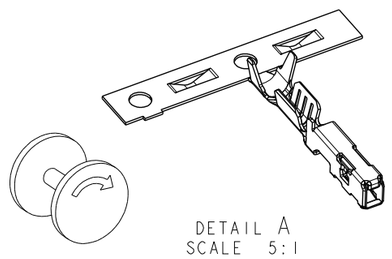
Customer Signature Date

Print Name Customer Tracking Number (optional)

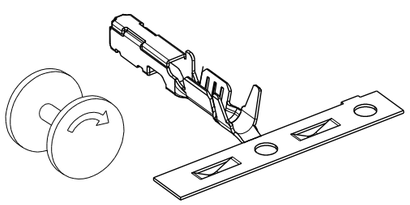
based on CFG-1001 march 2006

REVISIONS					
P	LTR	DESCRIPTION	DATE	DWN	APVD
	B2	REVISED PER ECO-16-000840	25JAN2016	DLD	CJS
	C	REVISED PER ECO-16-006930	17MAY2016	DLD	CJS
	C1	REVISED PER ECO-19-001554	31JAN2019	JMS	CS

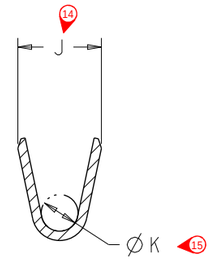




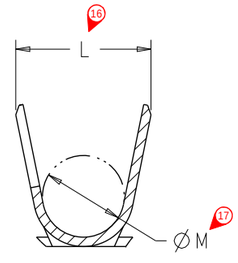
DETAIL A
SCALE 5:1



DETAIL B
REQUIRED REELING DIRECTION
FOR TE APPLICATORS
SCALE 5:1



SECTION AF-AF



SECTION N-N

1. MATERIAL: COPPER ALLOY
2. FINISH: PRE-PLATED WITH 1.00µm MIN BRIGHT TIN
3. MATERIAL ID FEATURE IN "DOWN" POSITION.
4. THE INTENTED TEMPERATURE RANGE FOR THIS TERMINAL IS -40°C TO +100°C.
5. NOTE REMOVED.
6. TERMINAL HAS NYE LUBRICANTS NYETACT 568J-50-UV PERFORMANCE LUBE/GREASE APPLIED. THIS IS A WHITISH COLORED LUBE. AMOUNT AND VISIBILITY MAY VARY.

INSULATION DIAMETER	REELING	M	L	K	J	FINISH	WIRE SIZE: METRIC	WIRE SIZE: AWG	PART NUMBER
0.13mm²= 0.85-1.05; 0.35mm²= 1.10-1.40	DETAIL B	1.40	2.40	0.80	1.85	2 3 6	2X 0.13mm² 0.35mm²	2X 26 OR 22	1-1456574-8
0.85-1.05	DETAIL B	0.85	1.82	0.65	1.50	2 3 6	0.13mm²	26	1-1456574-7
0.13mm²= 0.85-1.05; 0.35mm²= 1.10-1.40	DETAIL A	1.40	2.40	0.80	1.85	2 3 6	2X 0.13mm² 0.35mm²	2X 26 OR 22	1-1456574-6
0.85-1.05	DETAIL A	0.85	1.82	0.65	1.50	2 3 6	0.13mm²	26	1-1456574-5
2.06 MAX	DETAIL B	1.78	2.94	1.00	1.96	2 3 6	0.75mm²	18	1-1456574-4
1.5-1.85	DETAIL B	1.78	2.94	0.80	1.82	2 3 6	0.50-0.35mm²	20-22	1-1456574-3
2.06 MAX	DETAIL A	1.78	2.94	1.00	1.96	2 3 6	0.75mm²	18	1-1456574-2
1.5-1.85	DETAIL A	1.78	2.94	0.80	1.82	2 3 6	0.50-0.35mm²	20-22	1-1456574-1

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±
2 PLC ±0.15
3 PLC ±
4 PLC ±
ANGLES ±

MATERIAL - 1
FINISH - SEE TABLE

DWN H. MOLL 01JUN06
CHK D. FRY 01JUN06
APVD I. MYER 01JUN06
PRODUCT SPEC 108-2296
APPLICATION SPEC 114-13183
WEIGHT -

TE Connectivity

NAME CONTACT, 0.64mm, FEMALE, GENERATION Y, UNSEALED APPLICATIONS

SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A1	00779	C-1456574	FORD

RESTRICTED CUSTOMER | SCALE 15:1 | SHEET 1 OF 1 | REV C1

4805 (3/13)

Production Part Approval - Dimensional Results

Tyco tracking number: 2021-156016_1428-YV-01

ORGANIZATION: ***TE Connectivity Belgium bv***
SUPLLIER/VENDOR CODE:
INSPECTION FACILITY:
QS

PART NUMBER: **1-1456574-6/-8**
PART NAME: **Contact 0,64mm, Female, GenY**
DESIGN RECORD CHANGE LEVEL: **C1**
ENGINEERING CHANGE DOCUMENTS:

ITEM	DIMENSION/SPECIFICATION	SPECIFICATION/ LIMITS	TEST DATE	QTY TESTED	ORGANIZATION MEASUREMENT RESULTS (DATA)	OK	NOT OK
	Drawing C-1456574 Ford Rev C1 dd. 31/01/2019						
1	Ø 1.50	±0.05	17/03/2014	Track "Square"	1.49	X	
	TYP			Track "Triangle"	1.49	X	
2	8.00	±0.15	17/03/2014	Track "Square"	8.00	X	
				Track "Triangle"	7.99	X	
3	3.00	±0.15	25/05/2021	Track "Square"	3.02	X	
				Track "Triangle"	3.06	X	
4	1.60	±0.05	25/05/2021	Track "Square"	1.60	X	
				Track "Triangle"	1.62	X	
5	6.50	±0.15	7/01/2021	Track "Square"	6.48	X	
				Track "Triangle"	6.51	X	
6	1.90	±0.15	17/03/2014	Track "Square"	1.97...1.98	X	
				Track "Triangle"	1.94...1.96	X	
7	3.00	±0.15	17/03/2014	Track "Square"	3.00...3.00	X	
				Track "Triangle"	3.00...3.01	X	
8	1.50	±0.15	17/03/2014	Track "Square"	1.47	X	
				Track "Triangle"	1.47	X	
9	0.70	±0.15	8/04/2014	Track "Square"	0.59	X	
				Track "Triangle"	0.62	X	
10	1.00	±0.15	17/03/2014	Track "Square"	1.00	X	
				Track "Triangle"	1.01	X	
11	5.60	±0.15	17/03/2014	Track "Square"	5.59...5.61	X	
				Track "Triangle"	5.60...5.61	X	
12	2.25	±0.05	25/05/2021	Track "Square"	2.23	X	
				Track "Triangle"	2.23	X	
13	2.60	±0.07	25/05/2021	Track "Square"	2.61	X	
				Track "Triangle"	2.66	X	
14	Dimension "J"	±0.15	25/05/2021	Track "Square"	1.84	X	
	According Table: 1.85			Track "Triangle"	1.82	X	
15	Dimension "ØK"	±0.15	17/03/2014	Track "Square"	0.81	X	
	According Table: Ø0.80			Track "Triangle"	0.84	X	
16	Dimension "L"	±0.15	25/05/2021	Track "Square"	2.36	X	
	According Table: 2.40			Track "Triangle"	2.38	X	
17	Dimension "ØM"	±0.15	17/03/2014	Track "Square"	1.37	X	
	According Table: Ø1.40			Track "Triangle"	1.40	X	

Signature

Title
PPAP Administrator

26/05/2021

Production Part Approval - Material Test Results

Tyco tracking nr:

ORGANIZATION: ***Tyco Electronics Belgium EC bvba***	PART NUMBER: **1-1456574-6/-8**
SUPLLIER/VENDOR CODE:	PART NAME: **Female 0.64 Gen Y sealed application**
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						
	Copper Alloy				see certificate 705639-1_MT	x	
	pre plated with 1.00µm min						
	Nye Lubricant nyetact 568J-50_UV				see certificate 1915850-2_MT	x	

based on CFG-1004
march 2006

Signature Title

KMD Connectors Stolberg GmbH

den 29.04.2021

TE CONNECTIVITY BELGIUM BVBA

SIEMENSLAAN 14

8020 OOSTKAMP

Belgio

Abnahmeprüfzeugnis 3.1 EN 10204:2005	Coil 300688646S	Herst. KM	Packliste 178671	Auftrag 2119702 - 1	Kunde 04207800

Anzahl 2 Gewicht netto 1732,00 KG

Packstuecke WC424286, WC424282

Ihre Bestellung 2550065106

Kunden-Material-Nummer 705639-1 Artikel 7800382

CUSN4 0,200 X 39,00 SN

100-221 REV AC

112-20-5 REV AD

Mechanische Prüfung

		Soll		Ist	
		min.	max.	min.	max.
Dicke	mm	0,193	0,203	0,198	0,203
Breite	mm	38,95	39,05	38,99	39,03
Zugfestigkeit	|| RM N/mm²	520	600	576	587
Streckgrenze	|| RP N/mm²	455		567	573
Bruchdehnung	A 50mm || %	6		6,8	8
Härte	*HV	172	192	188	188
Biegbarkeit	|| 180° r= 0.20mm BK =			rissfrei	rissfrei
Leitfähigkeit	m/(Omm²)	10		11,83	11,83
Säbelförmigkeit	mm/ 900		1,6	0,07	0,13
Ausbiegung	mm/ 900		225	11	27
Querwölbung	mm/ 39		0,078	0,002	0,003
Schneidgrat	mm		0,02	0,002	0,009
Oberflächenrauhtiefe Ra	Ra µm		0,35	0,08	0,14
Auflagendicke	Rein-Feuerverzinnt µm	1	3	1,83	2,29
Korngröße	µm		15	8	8
Drall-Grad	°/ 900		10	1	3

Lochsuchkontrolle i.O.
* Richtwert

Chemische Zusammensetzung %

bleifrei

NI	0.0072
SN	3.9400
ZN	0.0074
FE	0.0017

Alle Elemente, die nicht explizit aufgelistet sind, entsprechen in ihren jeweiligen Anteilen der Spezifikation aus Ihrer o.g. Bestellung.

Werkstoffprüfung
Abnahmebeauftragter: Herr Fuchs
(Dieses Schreiben wurde maschinell erstellt und ist auch ohne Unterschrift gültig.)

Telefon :+49 2402 105-516
Fax :+49 2402 105-279
Email :andreas.fuchs@kmdgroup.cor

den 29.04.2021

TE CONNECTIVITY BELGIUM BVBA

SIEMENSLAAN 14

8020 OOSTKAMP

Belgio

Abnahmeprüfzeugnis 3.1 EN 10204:2005	Coil 300688646S	Herst. KM	Packliste 178671	Auftrag 2119702 - 1	Kunde 04207800

Anzahl 2 Gewicht netto 1732,00 KG

Packstuecke WC424286, WC424282

Ihre Bestellung	2550065106		
Kunden-Material-Nummer	705639-1	Artikel	7800382
CUSN4 0,200 X 39,00 SN			
	100-221 REV AC		
	112-20-5 REV AD		

P	0.0748
CU	Rest

Alle Elemente, die nicht explizit aufgelistet sind, entsprechen in ihren jeweiligen Anteilen der Spezifikation aus Ihrer o.g. Bestellung.

Werkstoffprüfung
Abnahmebeauftragter: Herr Fuchs
(Dieses Schreiben wurde maschinell erstellt und ist auch ohne Unterschrift gültig.)

Telefon :+49 2402 105-516
Fax :+49 2402 105-279
Email :andreas.fuchs@kmdgroup.cor

Since 1844 Nye Lubricants TECHNOLOGY IN MOTION®

CERTIFICATE OF ANALYSIS / CERTIFICATE OF CONFORMANCE

SUBMITTED TO: Newgate Simms Ltd. **REFERENCE NO.:** 384877483

REFERENCE PO NO.: 17139

PRODUCT: 568J-50-UV-5GAL

PART NO.: n/a

BATCH NO.: CF201106

STATEMENT OF CONFORMANCE

We hereby certify that the above material being shipped against the referenced Purchase Order is provided from approved, identified and traceable sources of raw materials and is the specific material identified above, prepared according to approved manufacturing procedures and specifications and/or tested to applicable specifications. Where quality control testing is appropriate, test data is on file with ourselves or our suppliers for reference as needed.

OFFICIAL TEST RESULTS

The above material has been tested in our laboratory and conforms to the specifications currently in effect. The following are the results of individual tests which have been performed on this product.

Test and Conditions	Method	Requirements	Results
Gravimetric Analysis	CTM-19 or CTM-54	48 – 52 % Solids	49.6%
FT-IR	CTM-17	MEET STANDARD	PASS

Certification Date: December 11, 2020

Date of Mfg: November 6, 2020

Shelf Life: 4 Years from ship date

Expires Last Day of: December 2024

SigPlus2

12/11/2020 03:10:00 pm

Quality Assurance Representative

Nye Lubricants, Inc.

12 Howland Rd. Fairhaven, MA 02719 USA Ph: +1.508.996.6721 Fx: +1.508.997.5285 *NyeLubricants.com*

To access or print Nye's SDS and Technical datasheets, please follow the link: *https://www.nyelubricants.com/datasheets-sds*