

Part Name TERMINAL		Cust. Part Number XW4T-14474-TA	
Shown on Drawing No. XW4T-14474-TA		Org. Part Number 7116-4124-02	
Engineering Change Level E8/AELE-E-11784007-231		Dated 19-02-2013	
Additional Engineering Changes N/A		Dated N/A	
Safety and/or Government Regulation <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No. N/A		Weight (kg) 0,0012
Checking Aid No. N/A	Checking Aid Engineering Change Level	N/A	Dated N/A
ORGANIZATION MANUFACTURING INFORMATION		CUSTOMER SUBMITTAL INFORMATION	
YAZAKI EUROPE LTD 323047696		NURSAN	
Organization Name & Supplier/Vendor Code		Customer Name/Division	
Robert Bosch Strasse., 43			
Street Address		Buyer/Buyer Code	
Cologne	NRW	D-50769	FORD
City	Region	Postal Code	Country
MATERIALS REPORTING			
Has customer-required Substances of Concern information been reported?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> n/a	
Submitted by IMDS or other customer format:		IMDS	
		IMDS ID : 123204509	
Are polymeric parts identified with appropriate ISO marking codes?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> n/a	
REASON FOR SUBMISSION (Check at least one)			
<input type="checkbox"/> Initial submission	<input type="checkbox"/> Change to Optional Construction or Material		
<input type="checkbox"/> Engineering Change(s)	<input type="checkbox"/> Supplier or Material Source Change		
<input type="checkbox"/> Tooling: Transfer, Replacement, Refurbishment, or additional	<input type="checkbox"/> Change in Part Processing		
<input type="checkbox"/> Correction of Discrepancy	<input type="checkbox"/> Parts produced at Additional Location		
<input type="checkbox"/> Tooling Inactive > than 1 year	<input checked="" type="checkbox"/> Other - please specify below customer request		
REQUESTED SUBMISSION LEVEL (Check one)			
<input type="checkbox"/> Level 1 - Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to customer.			
<input checked="" type="checkbox"/> Level 2 - Warrant with product samples and limited supporting data submitted to customer.			
<input type="checkbox"/> Level 3 - Warrant with product samples and complete supporting data submitted to customer.			
<input type="checkbox"/> Level 4 - Warrant and other requirements as defined by customer.			
<input type="checkbox"/> Level 5 - Warrant with product samples and complete supporting data reviewed at organization's manufacturing location.			
SUBMISSION RESULTS			
The results for <input checked="" type="checkbox"/> dimensional measurements		<input checked="" type="checkbox"/> material and functional tests	
		<input type="checkbox"/> appearance criteria <input type="checkbox"/> statistical process package	
These results meet all drawing and specification requirements:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> NO (If "NO" - Explanation Required)	
Mold / Cavity / Production Process		3D/4D4120	
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 144,000 / 8 hours.			
I also certify that documented evidence of such compliance is on file and available for review. I have noted any deviations from this declaration below.			
EXPLANATION/COMMENTS:			
Is each Customer Tool properly tagged and numbered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> n/a			
Organization Authorized Signature Dorinda Santos		Date 12 February 2015	
Print Name Dorinda Santos	Phone No. 351 256 246 763	FAX No. 351 256 246 892	
Title QE	E-mail dorinda.santos@yazaki-europe.com		
FOR CUSTOMER USE ONLY (IF APPLICABLE)			
PPAP Warrant Disposition: <input type="checkbox"/> Approved <input type="checkbox"/> Rejected <input type="checkbox"/> Other			
Customer Signature		Date	
Print Name		Customer Tracking No. (optional)	

Sample Component Inspection Report

CUSTOMER PART NO.
CUSTOMER

XW4T-14474-TA
FORD

[illegible]

7116-4124-02

**Terminal Wire
Connector Female**

SUPPLIER
DIE/MOLD NO.
NUMBER CAVITIES

Circuit Controls
3D4120
Progressive Die

B/P DATE
ECR/PCR
☒ **PRODUCTION**

2/19/13
AELE-E-11784007-231
☐ PROTOTYPE

[illegible]

Inspected By:
Q.E. Approval:

M. Simowski
Gary T. Mason

Date: 10/14/14
Date: 10/21/14

Sample Component Inspection Report

CUSTOMER PART NO.
CUSTOMER

XW4T-14474-TA
FORD

[illegible]

7116-4124-02

Terminal Wire Connector Female

SUPPLIER

Circuit Controls

B/P DATE

2/19/13

DIE/MOLD NO.

4D4120

ECR/PCR

AELE-E-11784007-231

NUMBER CAVITIES

Progressive Die

PRODUCTION

□ PROTOTYPE

[illegible]

Inspected By:
Q.E. Approval:

M. Simowski
Gary T. Mason

Date: 3/31/14
Date: 4/9/14

J483

CERTIFICATION REPORT



SOLD TO CIRCUIT CONTROLS CORP. 2277 M-119 HIGHWAY PETOSKEY, MI 49770		SHIP TO CIRCUIT CONTROLS CORP. 2277 M-119 HIGHWAY PETOSKEY, MI 49770		ENTRY - BOL 37925-393832
				ALLOY KLF5
PRODUCT DESCRIPTION 5.8750 .01570 H04 PHOS BRONZE KLF-5 STRIP *REFLOW* P/N 2924-4000-3420 DATED 6/06/00 (1.3465)		QUANTITY ORDERED PCS. LBS. 999000	PCS. 5 LBS. 6215 DATE 8/28/2014 TIME 7:55:59 AM	CUSTOMER ORDER NO. OUTO-3/PULL GOVT CONTRACT NO.

COIL NUMBER	704302	704304	704303			
COMPOSITION - %						
Copper	97.68	97.68	97.68			
Iron	.108	.108	.108			
Phosphorous	.033	.033	.033			
Tin	2.07	2.07	2.07			
PROPERTIES						
Tensile Str. (N/mm ²)	568.8	568.8	568.8			
Elongation (%)	11.8	11.8	11.8			
Grain Size (RTF) in mm	.010	.010	.010			
Vickers	173	173	173			
Bend Test (L)	OK	OK	OK			
Bend Test (T)	OK	OK	OK			
Elec. Cond. (%) IACS	35.3	35.3	35.3			
RA Side-A (µm)	.1	.1	.1			
RA Side-B (µm)	.0	.0	.0			
Coating Thickness (µm)	1.3	.9	1.3			
Spring Limit (N/mm ²)	497.7	497.7	497.7			
Gauge in mm	.39116	.39116	.39116			

WE HEREBY CERTIFY that these test results were obtained from samples taken from coil(s), which were produced for the purchase order stated. These samples have been subjected to the tests called for by the customer and /or ASTM specification(s).

This product was manufactured in compliance with all applicable government and safety constraints on restricted, toxic, and hazardous materials and complies to the Restriction of Hazardous Substances (RoHS2) Directive 2011/65/EU and the Consumer Product Safety Improvement Act of 2008.

Aurubis Buffalo, Inc. product Material Safety Data Sheets (MSDS) provides component information for all hazardous materials in conformance with the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Technical Department - Thomas C. Pilkington




		GENERAL TOLERANCE					
		10	MAX	50	MAX	100	MAX
A	±0.15	±0.20	±0.30	±0.40	±0.50	±0.75	±0.10
B	±0.20	±0.30	±0.55	±0.95	±1.40	±3.0	0.10
C	±0.20	±0.50	±0.80	±1.40	±2.00	±3.0	0.15

FORD ASSY PART NO.	MATERIAL THICKNESS (mm)	CONDUCTOR FLAT BLANK (mm)	INSULATION FLAT BLANK (mm)	*1	*2	WIRE
XM1-14474-1A	0.40	13.30	17.20	10 AWG	KLF-5	ESS-40
XM1-14474-2A	0.40	13.30	17.20	6mm ²	KLF-5	ES-A05- [2]

NOTE: CRIMP SPECS WILL BE PROVIDED UPON REQUEST.

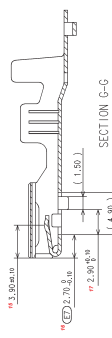
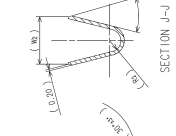
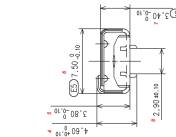
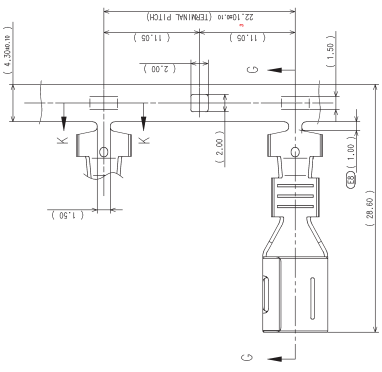
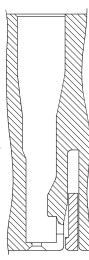
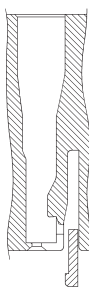
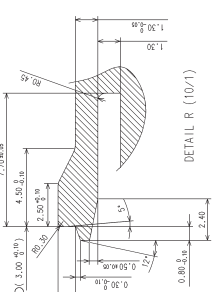
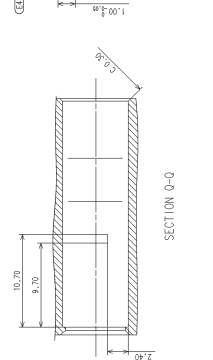
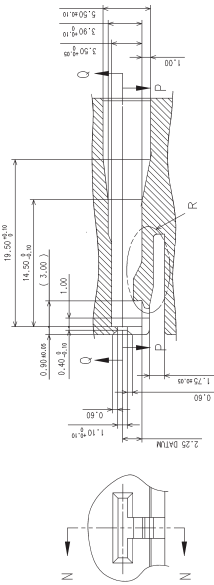
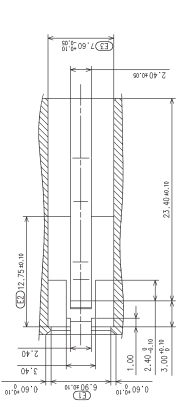
YAZAKI PART NO.	R1	W1	R2	W2	A	B	C	D	E	F	WIRE SIZE (AWG)
7116-4124-02	1.35	5.60	1.30	6.60	4.50	3.00	10.00	0.70	3.20	5.20	10 AWG OR EQUIVALENT

[illegible][illegible]

YAZAKI NORTH AMERICA, INC.			
APPROVED	CHECKED	CHECKED	DRAWN
 David L. Smith Sales Manager YAZAKI NORTH AMERICA, INC. 10000 W. 10th Ave. Denver, CO 80231	 David L. Smith Sales Manager YAZAKI NORTH AMERICA, INC. 10000 W. 10th Ave. Denver, CO 80231	 David L. Smith Sales Manager YAZAKI NORTH AMERICA, INC. 10000 W. 10th Ave. Denver, CO 80231	VALENTIN LOYA 02-19-2013

FORD PART NUMBER	WATERPROOF	WIRE SEAL COLOR	REFERENCE SPECIFICATION		WIRE SEAL NO.	SEAL RANGE	PLATING SPECIFICATION		SUPPLIER CROSS-REFERENCE		WEIGHT
			APPL CABLE WIRE SIZES	DRUMP SPEC.			FORD NUMBER	JAZAKI NUMBER	FORD NUMBER	JAZAKI NUMBER	
XW4T-1474-TA	NO	N/A	10 AMP UNF 1/8"	S-58FC-1448-AM	N/A	N/A	TIN PLATING PLATING SPEC. S-45TP-15000-AAA	XW4T-1474-TA	7111-2142-02	1.35 g	
								20M1-1442-1A	7111A-1724-02	1.35 g	
									7.3. WIRE TERMINAL	1.35 g	
									7.3. WIRE TERMINAL	1.35 g	

QTY	UNIT	DESCRIPTION	DATE	UNION	PLANT	TMS3	
QTY	UNIT	DESCRIPTION	DATE	UNION	PLANT		
1	EA	TERMINAL WIRE CONNECTOR	20130219				
1	EA	SAVANNAH					
1	EA	LOVA					
1	EA	SAFETY					
1	EA	WIRE					
1	EA	CONNECTOR					
1	EA	FEMALE					



NOTES:
1. PART MUST CONFORM TO ES-ENGINE-44464-A4A (SECOND REV.) DATED 06/07/95.
2. PART MUST CONFORM TO THE ELECTRICAL CONTROL SYSTEM DESIGN SPECIFICATION (SD) REV. 1, DATED 07/28/97.
3. THIS PART IS TO BE USED IN THE FOLLOWING APPLICATIONS: DISCOURAGEMENT, OR OTHER INSPECTIONS THAT AFFECT PERFORMANCE.
4. THIS PART IS TO BE USED IN THE FOLLOWING APPLICATIONS: DISCOURAGEMENT, OR OTHER INSPECTIONS THAT AFFECT PERFORMANCE.
5. FOR ENGINEERING APPROVED SOURCE USE ENGINEERING RELEASE.
6. ENGINEERING APPROVAL OF SAMPLE FROM EACH SUPPLIER IS REQUIRED FOR THIS PART.
7. UNLESS OTHERWISE SPECIFIED ALL PARTS TO BE 0.5.
8. UNITS: INCHES (IN) - 5-H
DIMENSIONS: K-15-H
TEMPER: TALL HING (REF.)
PLATING: 1000-444
REF: ES-ENGINE-44464-A4A