

## Part Submission Warrant

Part Name	<b>T50ROSFT6SO12.5R</b>	Cust. Part Number	<b>FU5T-14E047-JA</b>
Shown on Drawing No.	<b>12-0001-001-CSU</b>	Org. Part Number	<b>15700514</b>
Engineering Change Level	<b>01</b>	Dated	<b>15-Oct-12</b>
Additional Engineering Changes	<b>n/a</b>	Dated	<b>n/a</b>
Safety and/or Government Regulation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Purchase Order No.	<b>15700514</b>
Weight (kg)	<b>0,0024</b>		
Checking Aid No.	<b>n/a</b>	Checking Aid Engineering Change Level	<b>n/a</b>
Dated	<b>n/a</b>		

### ORGANIZATION MANUFACTURING INFORMATION

**HellermannTyton GmbH** **DUNS: 315430892**  
 Organization Name & Supplier/Vendor Code

**Großer Moorweg 45**  
 Street Address

**Tornesch** **25436** **Germany**  
 City Region Postal Code Country

### CUSTOMER SUBMITTAL INFORMATION

**Nursan Kablo Donanimlari** ( **30471** )  
 Customer Name/Division

**Özge KARASÖĞÜT**  
 Buyer/Buyer Code

**various**  
 Application

### MATERIALS REPORTING

Has customer-required Substances of Concern information been reported? ☒ Yes ☐ No ☐ n/a

Submitted by IMDS or other customer format: **555148024**

Are polymeric parts identified with appropriate ISO marking codes? ☐ Yes ☐ No ☒ 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     |
- Packaging change; old HellermannTyton-PN 157-00165

### 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 organization'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 **injection moulding / serial mold**

### 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 confidential - pcs / 24 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? ☐ Yes ☐ No ☒ n/a

Organization Authorized Signature **i.A.** *N. Lohse* Date **30-Jun-21**

Print Name **i.A. N. Lohse** Phone No. **+49 (0) 4122 701 5726** Fax No. **+49 4122 701 241**

Title **Quality Assistant** E-mail **nescha.lohse@HellermannTyton.de**

### FOR CUSTOMER USE ONLY (IF APPLICABLE)

PPAP Warrant Disposition: ☐ Approved ☐ Rejected ☐ Other

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_ Customer Tracking Number (optional) \_\_\_\_\_

## Current Material Certificate



HELLERMANN TYTON  
6701 W GOOD HOPE  
Milwaukee, WI 53224  
Attention: QUALITY DEPARTMENT

Customer Part No: UR0HIRHSUV0  
Container ID: SLAY 5303

Ascend Performance Materials Operations LLC  
Nylon Plastics and Polymers  
3000 Chemstrand Road  
Cantonment, FL 32533  
Telephone: (850) 968-7000

Certificate Date: 08-JAN-21  
Delivery No: 0382548104  
Shipped Qty: 46,280.000 Lbs  
(20,992.608 Kgs)  
Customer P.O. No: 146595-04

### Certificate of Analysis

This certifies that the Nylon Resin shipped to you from Ascend Performance Materials Operations, LLC has been tested and found to meet the required specifications.

This material was produced under a Quality System that meets ISO 9001:2015 and IATF 16949:2016 criteria.

This Nylon Resin meets the relevant requirements of Directive 2011/65/EU ("RoHS 2 Directive") including all amendments through Directive 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment and Directive 2012/19/EU on waste electrical and electronic equipment ("WEEE Directive").

If you have questions or concerns about this Certificate of Analysis, please contact Ascend Performance Materials Customer Operations at 1-888-927-2363.

This product meets the requirements of the following specifications: SAE J1639, SAE J1639 PA0171, ASTM D6779-PA0161-Z1Z2, ASTM D4066 PA0161, FMVSS 302, MS-DB-41 CPN 1826, ESB-M4D178-A2, WSS-M99P23-C1/C2, WSS-M99P9999-A1, WSSM4D706B1, WSS-M99P1111-A, WSS-M4D706-A4, WSK-M4D706-A, GMW16447P-PA66-T2, GMW16558P-PA66-T1 and GMP-PA66.015, Ford WQ 100C.

Material Type: VYDYNE 47H BK0644      Material No: 10404298      Batch No JA05FY03      Date of Mfg 05-JAN-2021

#### Ascend Performance Materials Operations LLC Specification

Lot Data Property	Test Method	Min	Max	Result	Units
Moisture	ASTM D8869	0.10	0.20	0.15	%
Copper	STM 00667	125	250	205	PPM
Strength @ Yld	ISO 527-1,2 / 1A	50	70	58	MPa
Flammability @ 0.8mm	UL 94HB	P	P	P	N/A

Note: This certificate is generated and controlled by electronic means. No signature is required. This document may not be reproduced, except in full, without written consent of the Nylon Plastics and Polymers Department, Ascend Performance Materials Operations LLC.

All information contained in this letter is provided for informational purposes only and is not meant to alter or waive the appropriate contractual product specifications. Moisture values are representative of the product at the time it was sampled. If numerical flame spread ratings appear herein, they are not intended to reflect the hazards presented by this or any other material under actual fire conditions. Each end user should determine whether potential fire hazards are associated with the finished product, and whether this resin is suitable for the particular end use.

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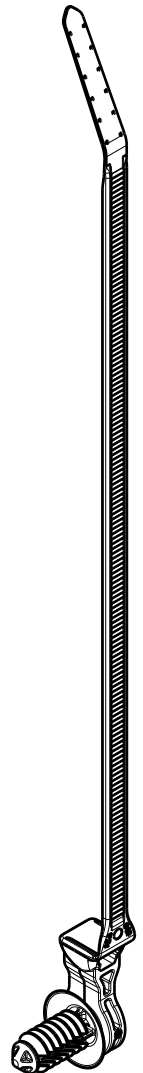
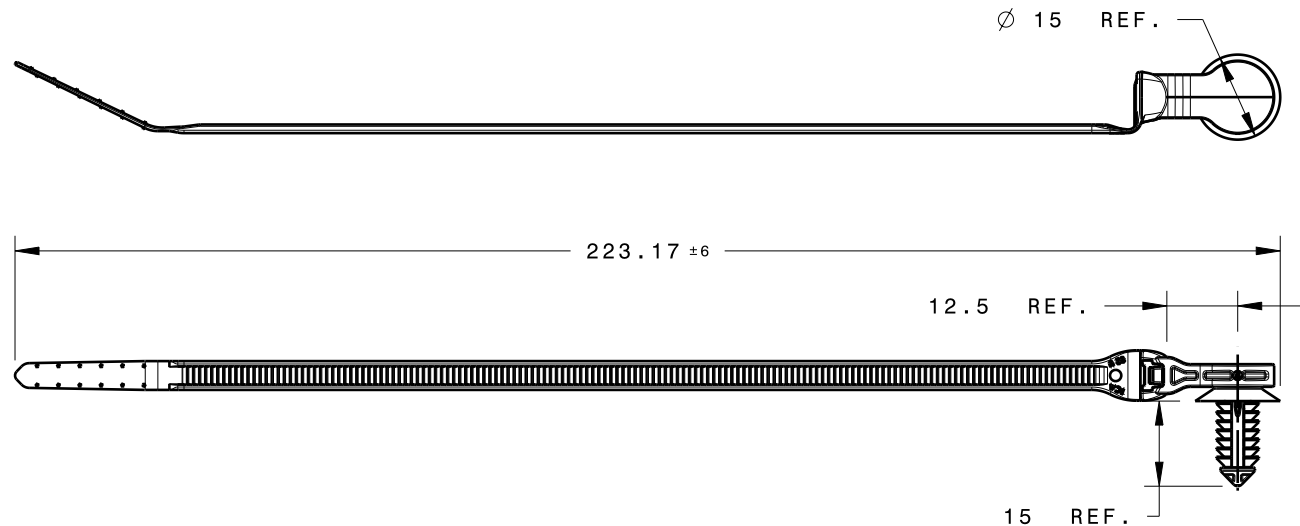
REFERENCE:

PERFORMANCE REQUIREMENTS:

1. FIR TREE PUSH IN FORCE: 10 lbs MAX IN A 6.5mm HOLE AND A PLATE THICKNESS OF 1.8mm
2. FIR TREE PULL OUT FORCE: 25 lbs MIN IN A 6.5mm HOLE AND A PLATE THICKNESS OR 1.8mm
3. HOLE DIAMETER RANGE: 6.1 TO 7.0mm HOLE
4. PANEL THICKNESS RANGE: .6 TO 8.25mm
5. CABLE TIE TENSILE STRENGTH: 50 lbs MIN
6. BUNDLE RANGE: 1.6mm TO 50mm



Assembly View



Isometric view

<b>I N V E N T O R S</b>	<b>HellermannTyton®</b> <small>ALL PROPRIETARY RIGHTS IN THE SUBJECT MATTER SHOWN ON THIS DRAWING ARE EXCLUSIVE PROPERTY OF HELLERMANNTYTON</small>			<b>R E V I S I O N S</b>	<b>D</b> R level	<b>D I M E N S I O N S</b>	.XXXX = ± 0.25 .XXX = ± 0.50 .XX = ± 1.00 .X = ± 2.00 ∠ = ± 0.50 <small>unless otherwise specified</small> millimeters	<b>P A R T</b>	T50ROSFT6SO12.5R phase PRODUCTION	<b>D R A W I N G</b>	FORMAT AH VERSION J A- SIZE (landscape)_N01	CATIA V5 CAD previous drawing number	SCALE 3:4
	name S. Adams date 2/28/12 city state MENOMONEE FALLS, WI.	by KVH date 10/15/12 ECN # 012202 part level C	name 50 LB LOW PROFILE TIE WITH 12.5mm OFFSET AND FT6 FIR TREE (90 DEGREE SERIES)		drawn S. ADAMS 2/28/12		checked M. TOLL 2/29/12		approved				
			material PA66HIRHS COLOR: BLACK		type CUSTOMER		sheet 1 of 1		number 12-0001-001-CSU				