

CATIA V5



## REFERENCE:

## PERFORMANCE REQUIREMENTS AT DRY AS MOLDED:

1. FIR TREE PUSH IN FORCE: 45 NEWTONS (10 LBS) MAX IN EACH APPLICABLE OVAL HOLE SIZE AND A PLATE THICKNESS OF 1.8mm.
2. FIR TREE PULL OUT FORCE: 110 NEWTONS (25 LBS) MIN IN EACH APPLICABLE OVAL HOLE SIZE AND A PLATE THICKNESS OF 1.8mm.
3. SHEET METAL THICKNESS RANGE: 0.60mm - 6.75mm
4. APPLICABLE OVAL HOLE SIZES:
  - A. 6.2 X 12.2mm
  - B. 6.5 X 12.5mm
  - C. 6.5 X 13.0mm
  - D. 7.0 X 12.0mm
5. FITS USCAR MATING HOLE EWCAP -007 (NOT A TEST SPEC.)

## NOTES:

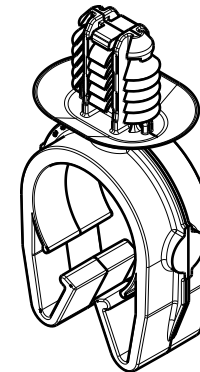
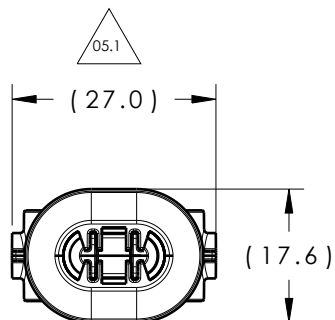
1. MAXIMUM PERCENT REGRIND PERMISSIBLE: 25%
2. MAX ALLOWABLE FLASH OR MISMATCH TO BE 0.5mm.

\*RECOMMENDED SIZES MAY DIFFER DEPENDING ON THE APPLICATION, PRODUCT REQUIREMENTS AND MATERIALS USED

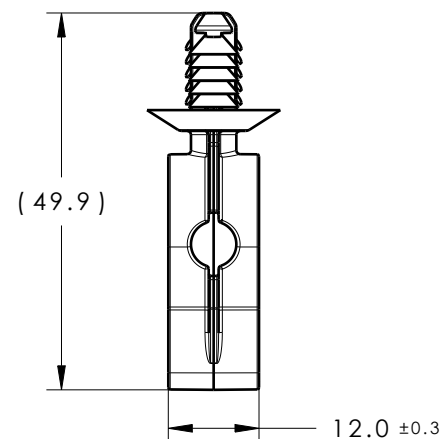
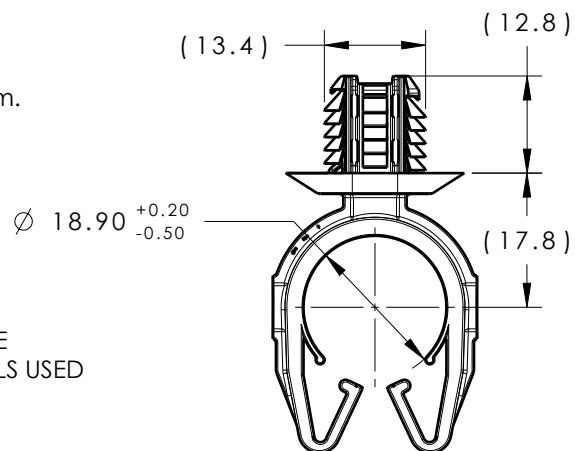
## PATENT:

US D822,476 S  
EU 003864313  
CN 304373914 S

Revision Level			Revision Record	Changed	Date	Approved	Date
Drawing	State	Part					
05.1	Design Release	-	SEE ECN# 016003	NHK	07/10/2020	HDC	07/10/2020



ISOMETRIC VIEW



## DIAMETER RANGE\*

HARNESS	HOSE	HARD PIPE/TUBE
17.0MM-20.0MM	17.0MM-20.0MM	19.0MM-21.8MM

GLOBAL PART DESCRIPTION	MATERIAL	COLOR
MOC19FTOVAL-PA66HIRHSUV-BK	PA66HIRHSUV	BLACK

Material  SEE CHART  COLOR: SEE CHART	Units <b>millimeters</b>	The copyright of this drawing is reserved by HellermannTyton. It is issued on condition that it is not reproduced, copied or disclosed to a third party, either wholly or in part, without the consent of HellermannTyton.	Drawn	CRB	08/09/16	Article/Type-No	MOC19FTOVAL		Scale	1:1		
	Tolerance defined on each dimension		Approved	EJH	09/30/16	Title	19MM (3/4") MOC WITH 6.5 X 12.5MM OVAL FIR TREE		Project Number			
			<div>HellermannTyton</div> <div>North America</div> <div>Email: corp@htamericas.com</div> <div>Web: www.hellermann.tyton.com</div>					Drawing-No	PRODUCTION : Phase	Format		AH
										Sheet		1/1
										16-0322-010-CSU		