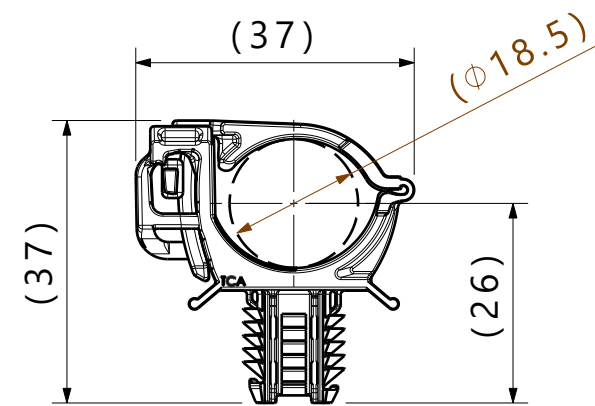
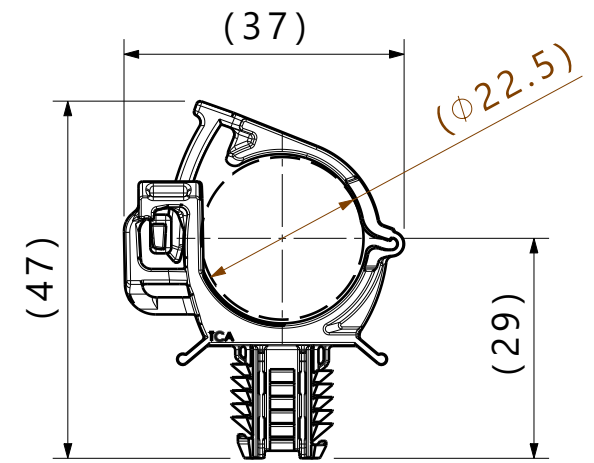
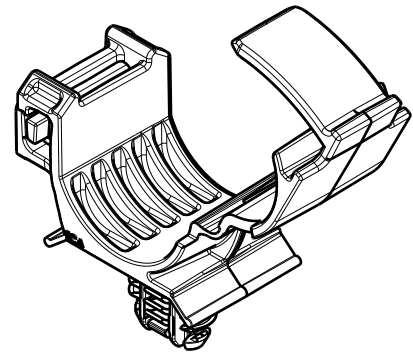




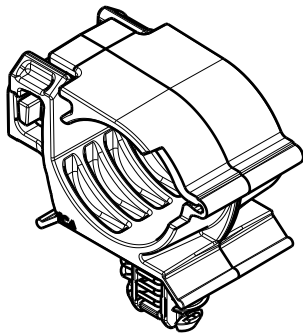
Reference view
Closed minimum bundle diameter



Reference view
Closed maximum bundle diameter



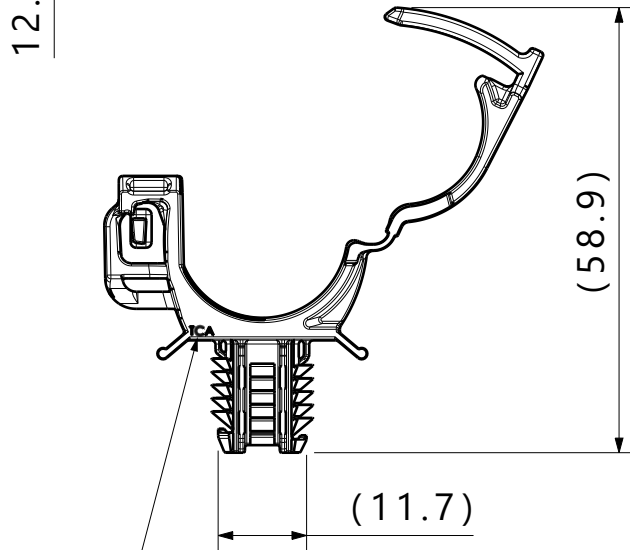
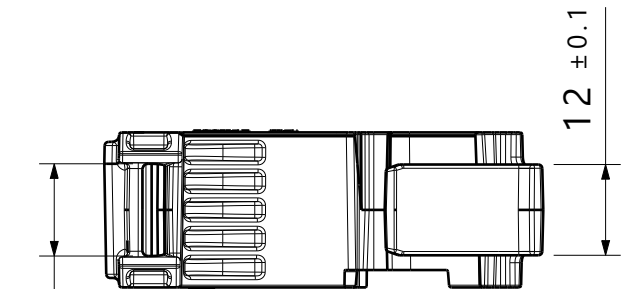
Isometric view
Open



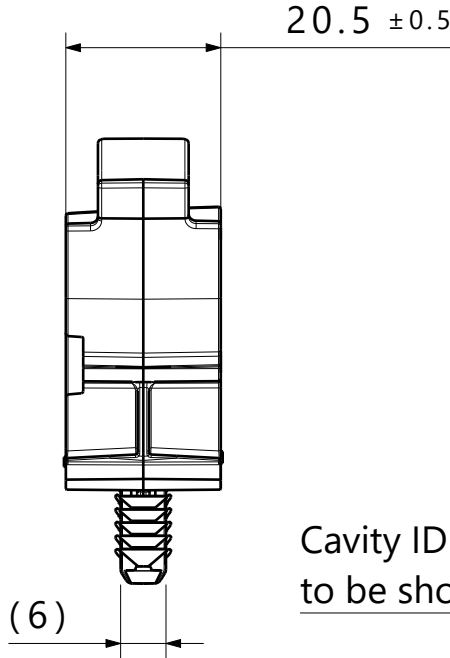
Isometric view
Closed minimum bundle diameter

- Reference:
Performance requirements at dry as molded:
1. Fir tree push in force: 45 newtons (10 lbf) max in the applicable nominal hole size and a plate thickness of 1.8mm.
 2. Fir tree pull out force: 110 newtons (25 lbf) min in the applicable nominal hole size and a plate thickness of 1.8mm.

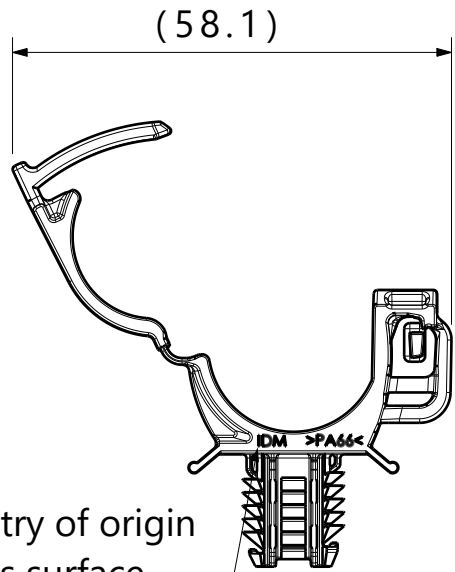
- Notes:
1. Material: See chart
 2. Material color: See chart
 3. Maximum percent regrind permissible: 25%
 4. Max allowable flash to be: 0.5mm
 5. Max allowable mismatch to be: 0.1mm
 6. Sheet metal thickness range: 0.60mm - 6.75mm
 7. Applicable oval hole sizes:
 - A. 6.2 x 12.2mm +/-0.2
 - B. 6.5 x 12.5mm +0.2/-0.4
 - C. 6.5 x 13.0mm +/-0.2
 - D. 7.0 x 12.0mm +/-0.2



'TCA' to be shown on this surface



Cavity ID and country of origin
to be shown on this surface



Global Part Description	Material	Color
ROC18.5-22.5FTOVAL-PA66HIRHSUV-BK	PA66HIRHSUV	Black

Revision Level		
Drawing	State	Part
00.0	Design Release	-
Changed	Date (YYYY/MM/DD)	
Karabon	2024/03/22	
Approved	Date (YYYY/MM/DD)	
Van Hulst	2024/03/22	

Revision Record		
ECN 311027		

All drawing revisions are stored in CAD PDM database

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Units	mm

Drawn	Date (YYYY/MM/DD)
Karabon	2024/03/22
Approved	Date (YYYY/MM/DD)
Van Hulst	2024/03/22

Title		Scale
Ratchet O-Clamp, 18.5-22.5mm, 6.5x12.5mm oval fir tree		1:1
Drawing-No		Global Project Number
24-0497-001-CSU		24-0497
		Format
		A3
		Sheet
		1 / 1