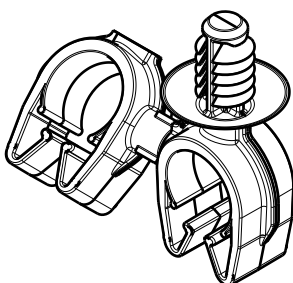
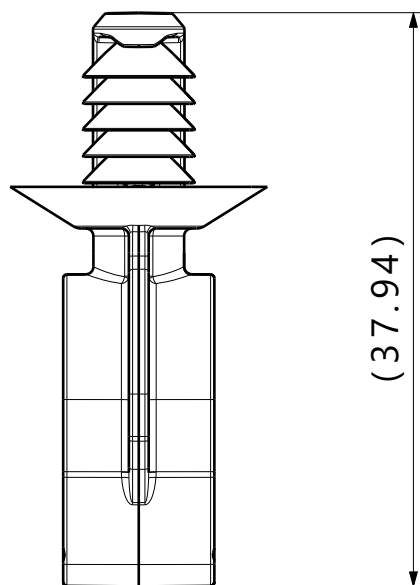
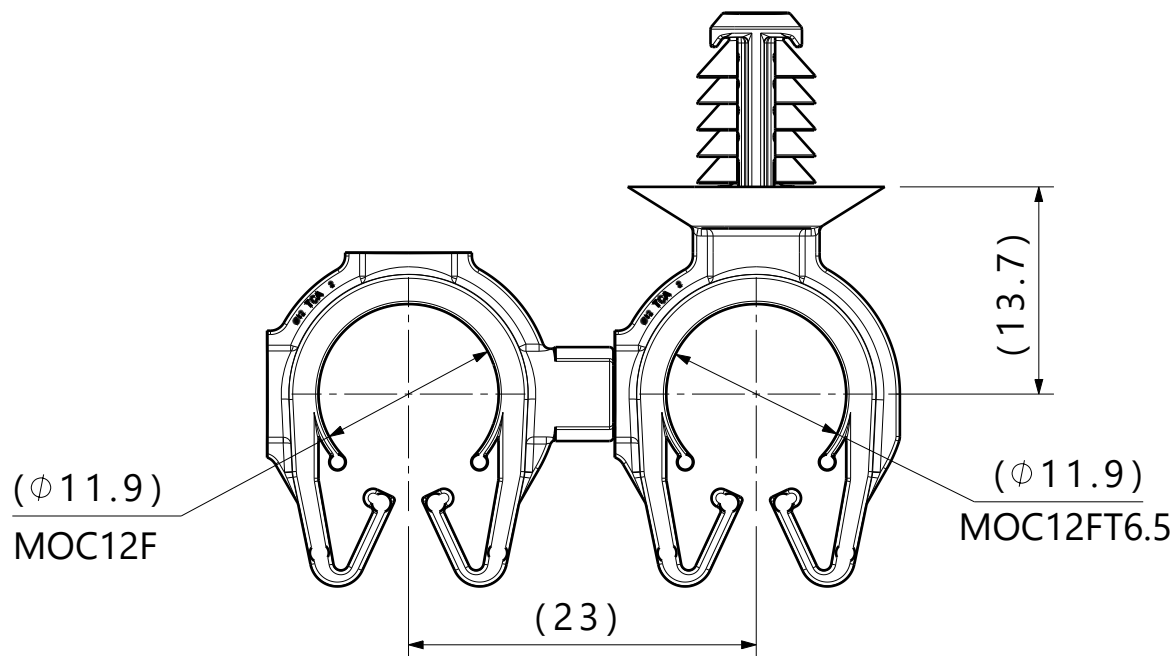
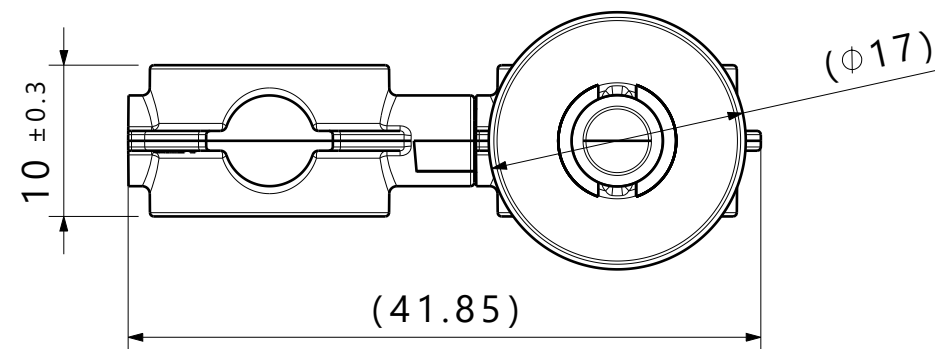


Isometric view
Scale 1:1



Isometric view - Rotated
Scale 1:1

Clips rotate
360 degrees



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. Sheet metal thickness range: 0.60mm - 6.00mm
2. Applicable hole size:
A. 6.5mm +0.5/- 0.4

Rotational orientation of clips upon delivery is not controlled

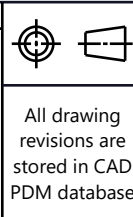
Diameter range*		
Harness	Hose	Hard pipe/tube
11.5mm-13.0mm	10.5mm-13.0mm	12.0mm-13.8mm

*Recommended sizes may differ depending on the application,
product requirements, and materials used.
**Patent: US D822,476 S, EU 003864313, CN 304373914 S

Global Part Description	MOC12F**			MOC12FT6.5M**		
	Drawing	Material	Color	Drawing	Material	Color
MOC12FMOC12FT6.5-PA66HIRHSUV-BK	16-0319-000-CSU	PA66HIRHSUV	Black	16-0319-029-CSU	PA66HIRHSUV	Black

Revision Level		
Drawing	State	Part
00.1	Design Release	-
Changed	Date (YYYY/MM/DD)	
Karabon	2021/05/20	
Approved	Date (YYYY/MM/DD)	
Fish	2021/05/20	

Revision Record	
ECN 016522	



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HellermannTyton.

Drawn	Date (YYYY/MM/DD)
Karabon	2021/05/20
Approved	Date (YYYY/MM/DD)
Fish	2021/05/20

Title MOC12 male with 6.5 round fir tree coupled to an MOC12 female	Scale 2:1
	Global Project Number 21-0270
Drawing-No 21-0270-001-CSU	Format A3
	Sheet 1 / 1