

CABLE MANAGEMENT

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Edition 4

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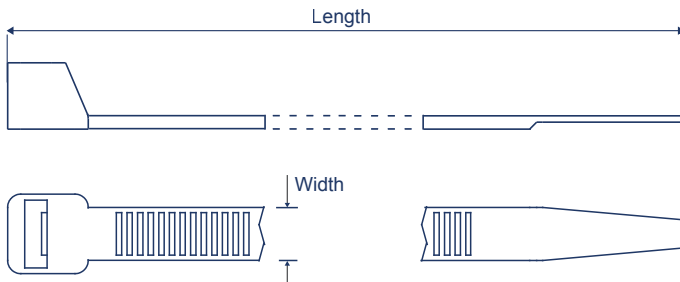
Cable Management

Cable Ties



Standard Cable Ties - SDNYCT

Type Standard Cable Ties
 Material Nylon 6/6 UL94-V2 / TMS 001
 Also available: Flame Retardant UL94-V0, Heat Stabilised & Low Fume on application.
 Add HS to part number for heat stabilised, WR for weather resistant and FR for flame retardant
 Colour Natural/Black/Blue/Green/Red/Yellow/Brown
 Max Bundle Diameter 22 - 295 mm
 Standard Pack 100 per bag (SDNYCT-CT25100 also available in pack size 1000)



Part Number	Width mm (inch)	Length mm (inch)	Max Bundle Diameter mm (inch)	Standard Finishes Available	Minimum Tensile Strength kg (lbs)
SDNYCT-CT25100	2.5 (0.10)	100 (3.94)	22 (0.87)	N, BK, RD, BU, GN, YL, BN	8.1 (18)
SDNYCT-CT25120	2.5 (0.10)	120 (4.72)	30 (1.18)	N, BK	
SDNYCT-CT25160	2.5 (0.10)	160 (6.29)	40 (1.56)	N, BK	
SDNYCT-CT25200	2.5 (0.10)	200 (7.87)	53 (2.09)	N, BK	
SDNYCT-CT36140	3.6 (0.14)	140 (5.51)	33 (1.30)	N, BK, RD, BU, GN, YL, BN	18.2 (40)
SDNYCT-CT36200	3.6 (0.14)	200 (7.87)	53 (2.09)	N, BK	
SDNYCT-CT36300	3.6 (0.14)	300 (11.81)	76 (2.99)	N, BK	
SDNYCT-CT48160	4.8 (0.19)	160 (6.30)	38 (1.50)	N, BK	22.2 (50)
SDNYCT-CT48200	4.8 (0.19)	200 (7.87)	50 (1.97)	N, BK, RD, BU, GN, YL, BN	
SDNYCT-CT48250	4.8 (0.19)	250 (9.84)	60 (2.36)	N, BK	
SDNYCT-CT48300	4.8 (0.19)	300 (11.81)	76 (2.99)	N, BK, RD, BU, GN, YL, BN, SL	
SDNYCT-CT48370	4.8 (0.19)	370 (14.57)	102 (4.02)	N, BK, RD, BU, GN, YL, BN, SL	
SDNYCT-CT48430	4.8 (0.19)	430 (16.93)	110 (4.33)	N, BK	
SDNYCT-CT76200	7.6 (0.30)	200 (7.87)	50 (1.97)	N, BK	54.4 (120)
SDNYCT-CT76300	7.6 (0.30)	300 (11.81)	76 (2.99)	N, BK	
SDNYCT-CT76450	7.6 (0.30)	450 (17.72)	132 (5.20)	N, BK	
SDNYCT-CT76540	7.6 (0.30)	540 (21.26)	140 (5.51)	N, BK	
SDNYCT-CT76370	7.6 (0.30)	370 (14.57)	102 (4.02)	N, BK	
SDNYCT-CT90430	9 (0.35)	430 (16.93)	110 (4.33)	N, BK	79.4 (175)
SDNYCT-CT90530	9 (0.35)	530 (20.87)	140 (5.51)	N, BK	
SDNYCT-CT90710	9 (0.35)	710 (27.95)	190 (7.48)	N, BK	
SDNYCT-CT90780	9 (0.35)	780 (30.71)	228 (8.98)	N, BK	
SDNYCT-CT901020	9 (0.35)	1020 (40.16)	295 (11.61)	N, BK	114 (250)
SDNYCT-CT127580	12.7 (0.50)	580 (22.83)	152 (5.98)	N, BK	
SDNYCT-CT1271030	12.7 (0.50)	1030 (40.55)	295 (11.61)	N, BK	



N = NATURAL, BK = BLACK, RD = RED, BU = BLUE, GN = GREEN, YL = YELLOW, BN = BROWN, SL = SILVER

Part number -
 2.5 x 100 in Black = SDNYCT-CT25100BLACK

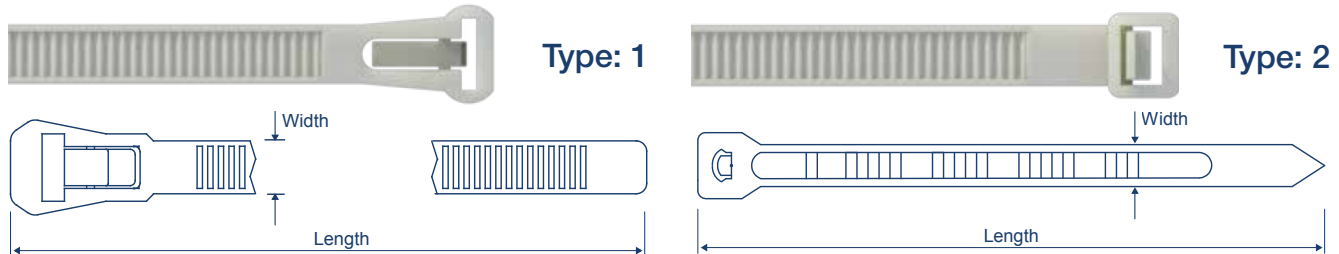
Cable Management

Cable Ties



Releasable Cable Ties | RENYCT

Type: Releasable Cable Ties
 Material: Nylon 6/6 UL94-V2 / TMS 001
 Colour: Natural/Black
 Standard Pack: 100 per bag



Part Number	Type	Approx Width mm (inch)	Approx. Length mm (inch)	Max Bundle Diameter mm (inch)	Minimum Loop Tensile Strength kg (lbs)
RENYCT-CT36100	2	3.6 (0.14)	100 (3.94)	33 (1.30)	18.2 (40)
RENYCT-CT48200	2	4.8 (0.19)	200 (7.87)	50 (1.97)	22.2 (50)
RENYCT-CT48300	2	4.8 (0.19)	300 (11.81)	86 (3.39)	22.2 (50)
RENYCT-CT48370	2	4.8 (0.19)	370 (14.57)	102 (4.02)	22.2 (50)
RENYCT-CT76200	1	7.6 (0.30)	200 (7.87)	50 (1.97)	54.4 (120)
RENYCT-CT76250	1	7.6 (0.30)	250 (9.84)	66 (2.60)	54.4 (120)
RENYCT-CT76300	1	7.6 (0.30)	300 (11.81)	89 (3.50)	54.4 (120)

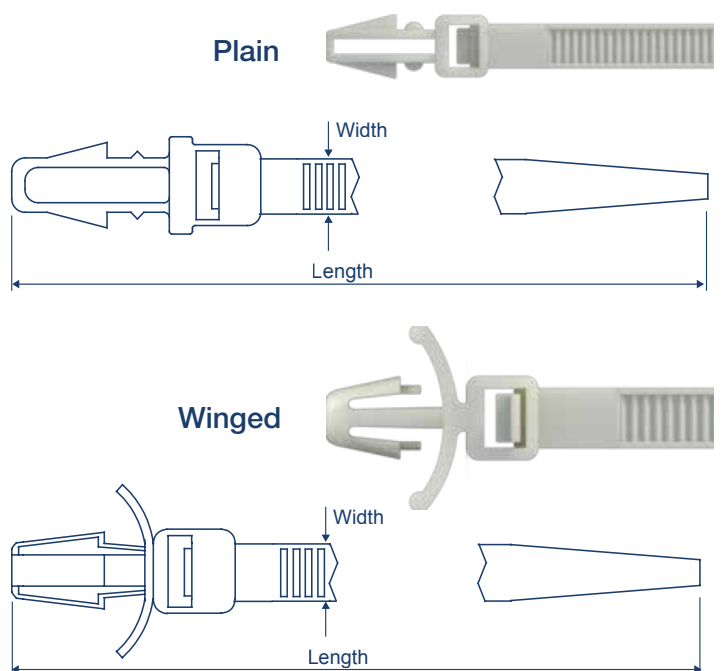


Part number example -
 7.6 x 250 in Black = RENYCT-CT76250BLACK

Push Mount Cable Ties - Plain and Winged | PMNYCT

Type: Push Mount Cable Ties
 Material: Nylon 6/6 UL94-V2 / TMS 001
 Colour: Natural/Black
 Standard Pack: 100 per bag

Part Number	Width mm	Length mm	Hole Size mm	Max Panel Thickness mm
Plain				
PMNYCT-CT48200	4.8	200	6.4	2.7
Winged				
PMNYCT-CT25100	2.5	100	3.6	3.5
PMNYCT-CT48100	4.8	100	6.4	2.7
PMNYCT-CT48200	4.8	200	5.6	3.5



Part number examples -
 Plain 4.8 x 200 Black = PMNYCT-CT48200BLACK
 Winged 4.8 x 200 Black = PMNYCT-CT48200BLACKWINGED

Cable Management

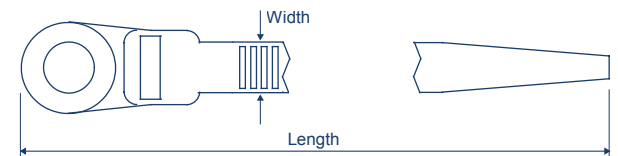
Cable Ties & Tie Holders



Screw Mount Cable Ties | SMNYCT

Type: Screw Mount Cable Tie
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural/Black
 Standard Pack: 1,000 per bag

Part Number	Width mm	Length mm	Hole Size mm
SMNYCT-CT25110	2.5	110	3.2
SMNYCT-CT36150	3.6	150	4.0
SMNYCT-CT48200	4.8	200	4.7
SMNYCT-CT48300	4.8	300	4.7
SMNYCT-CT48370	4.8	370	4.7
SMNYCT-CT76300	7.6	300	6.0
SMNYCT-CT76400	7.6	380	6.0



Part number example - 7.6 x 400 Black = SMNYCT-CT76400BLACK

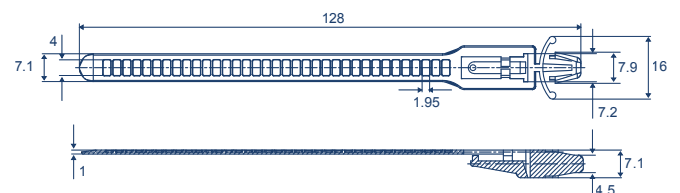
Releasable Arrowhead Cable Ties | RANYCT

Type: Releasable Arrow Head Cable Tie
 Material: Nylon 6/6 V2 / TMS 001
 Nylon 6/6 V0 / TMS 019
 Colour: Natural
 Hole Dia: 6.35 mm
 Panel Thickness: 1.6 mm
 Max Bundle Diameter: $\varnothing 12 \sim \varnothing 30$ mm
 Unit: mm

Standard Pack: 1,000 per bag



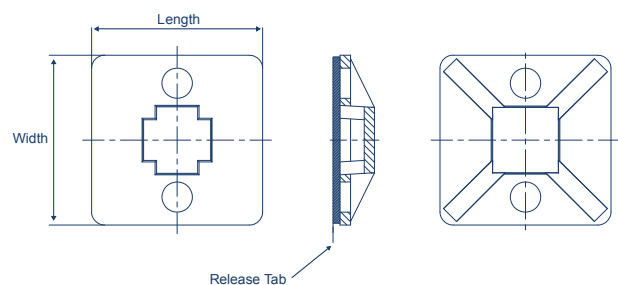
Part numbers -
 Nylon 6/6 V2 = RANYCT-TRTOAH-18-01
 Nylon 6/6 V0 = RANYCT-TRTOAH-18-19



Flat Tie Holder | SDNYTB

Type: Flat Tie Holder
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural/Black
 Unit: mm
 Standard Pack: 1,000 per bag

Part Number	Width mm	Length mm	Screw Hole Size mm	Max. Cable Tie Size mm
SDNYTB-CTAB1919	19	19	$\varnothing 3.5$	3.6
SDNYTB-CTAB2828	28	28	$\varnothing 5.7$	4.8



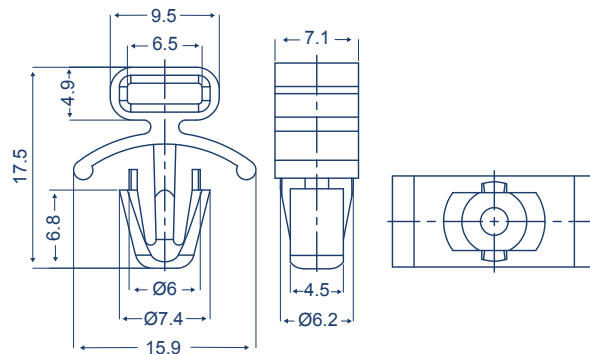
Part number -
 19 x 19 Black = SDNYTB-CTAB1919BLACK

Push Mount Tie Holder | TRFTH

Type	Push Mount Tie Holder
Material	Nylon 6/6 V2 / TMS 001
Colour	Natural
Hole Dia	ø 6.35
Panel Thickness	1.19 ~ 2.77 mm
Unit	mm
Standard Pack	1,000 per bag



Part number -
Nylon 6/6 V0 = TRFTH-6-01

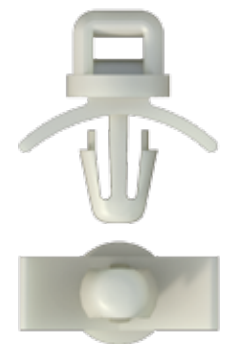
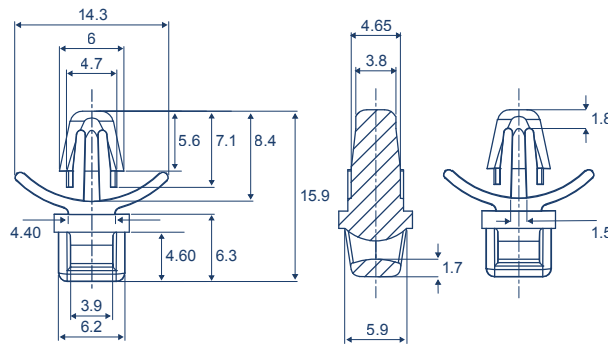


Flat Tie Holder - Arrowhead | TRFTH - 3

Type	Flat Tie Holder - Arrowhead
Material	Nylon 6/6 V2 / TMS 001 Nylon 6/6 V0 / TMS 019
Colour	Natural
Hole Dia	4.75 ± 0.08 mm
Panel Thickness	0.79 ~ 1.98 mm
Unit	mm
Standard Pack:	1,000 per bag



Part numbers -
Nylon 6/6 V2 = TRFTH-3-01
Nylon 6/6 V0 = TRFTH-3-19

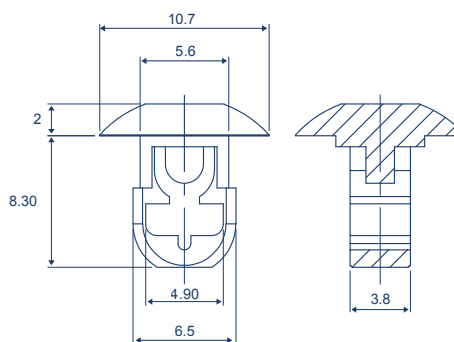


Flat Tie Holder - Through Hole | TRFTH - 9

Type	Flat Tie Holder - Thru Hole
Material	Nylon 6/6 V2 / TMS 001
Colour	Natural
Hole Dia	6.35 mm
Panel Thickness	3.80 mm
Standard Pack	1,000 per bag



Part number -
Nylon 6/6 V2 = TRFTH-9-01

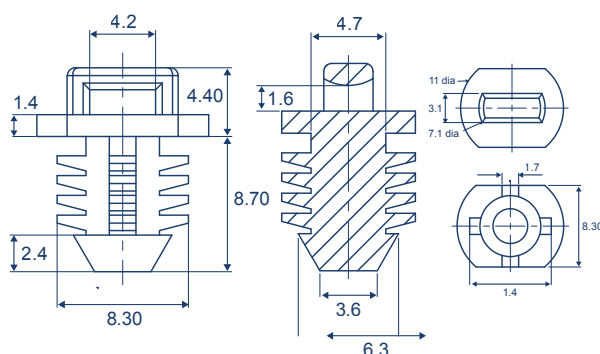


Flat Tie Holder - Blind Hole | TRFTH-15

Type	Flat Tie Holder - Blind Hole
Material	Nylon 6/6 V2 / TMS 001
Colour	Natural
Hole Dia	7.92 ± 0.08 mm
Panel Thickness	6.4 mm Min
Unit	mm
Standard Pack	1,000 per bag



Part number -
Nylon 6/6 V2 = TRFTH-15-01

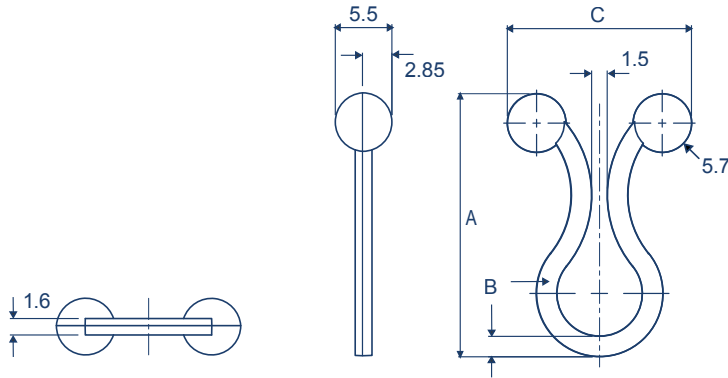


Cable Management

Twist Locks

Twist Lock (Standard) | TRTL

Type: Twist Lock Standard
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural
 Unit: mm
 Standard Pack: 1,000 per bag



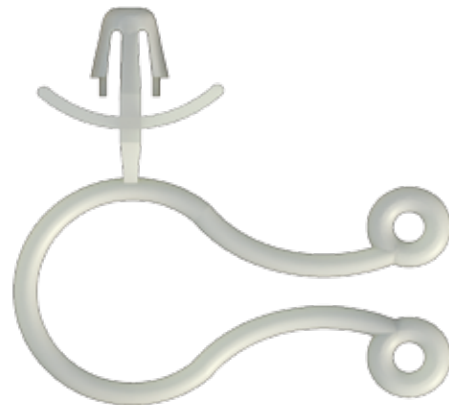
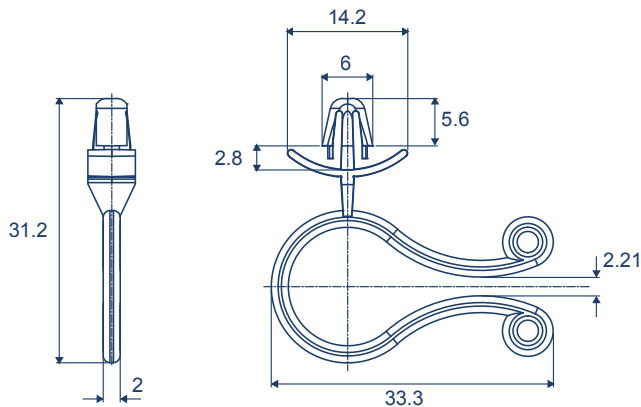
Part Number	"A"	"B"	"C"
TRTL-250-01	22.9	5.1 - 7.6	17.9
TRTL-350-01	26.2	7.6 - 10.2	18.5
TRTL-450-01	30.5	10.2 - 12.7	19.0



Part number -
 Nylon 6/6 V2 = TRTL-250-01

Twist Lock (Side Entry Curly Lock) | TRSKLO

Type: Side Entry Curly Lock
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural
 Hole: 4.75 ± 0.05 mm
 Panel Thickness: 1.6 mm
 Unit: mm
 Standard Pack: 1,000 per bag

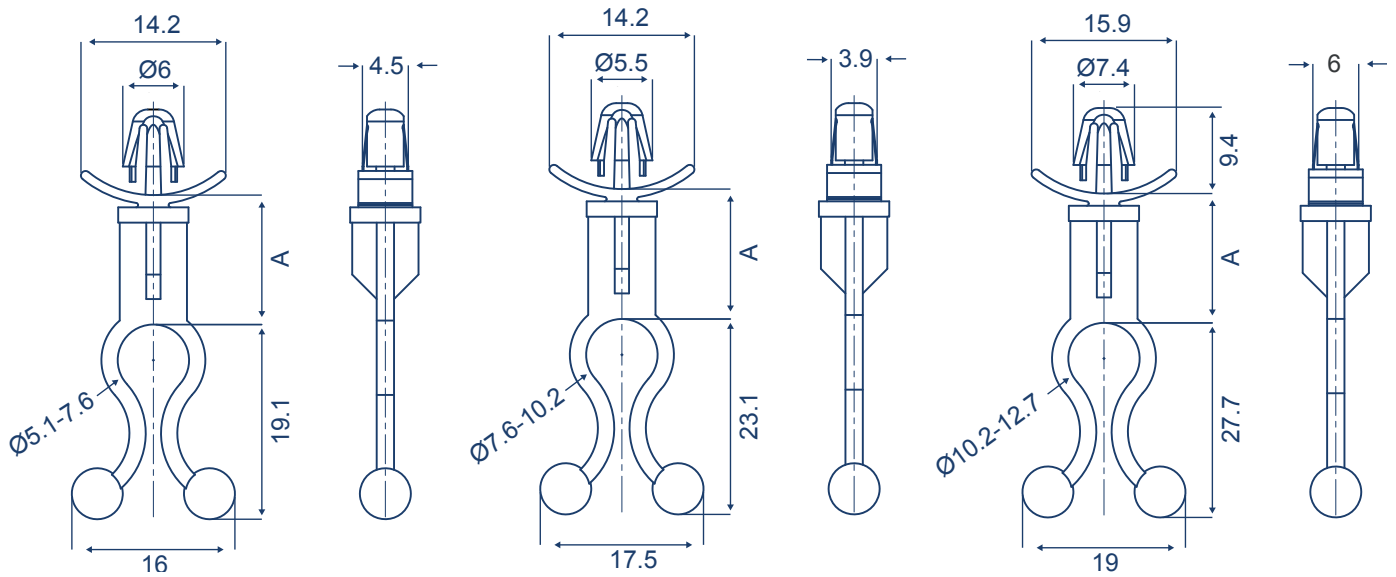


Part number -
 Nylon 6/6 V2 = TRSKLO-550-01

Stand-Off Twist Lock | TRSTL

Type
Material
Colour
Unit
Standard Pack

Stand-off Twist Lock
Nylon 6/6 V2 / TMS 001
Natural
mm
1,000 per bag



Type: 1

Type: 2

Type: 3

Part Number - Type 1	Part Number - Type 2	Part Number - Type 3	"A" ± 0.4
TRSTL - 250 - 3 - 01	TRSTL - 1 - 350 - 3 - 01	TRSTL - 6 - 450 - 3 - 01	4.8
TRSTL - 250 - 8 - 01	TRSTL - 1 - 350 - 8 - 01	TRSTL - 6 - 450 - 8 - 01	12.7
TRSTL - 250 - 12 - 01	TRSTL - 1 - 350 - 12 - 01	TRSTL - 6 - 450 - 12 - 01	19.1
TRSTL - 250 - 16 - 01	TRSTL - 1 - 350 - 16 - 01	TRSTL - 6 - 450 - 16 - 01	25.4
TRSTL - 250 - 20 - 01	TRSTL - 1 - 350 - 20 - 01	TRSTL - 6 - 450 - 20 - 01	31.8

1	2	3	Type
4.75 ± 0.08 mm	4 ± 0.08 mm	6.0 ± 0.08 mm	Top Hole
0.8 ~ 2.0 mm	0.8 ~ 2.0 mm	0.78 ~ 2.0 mm	Panel Thickness
19.1 mm	23.1 mm	27.7 mm	"B"
16.0 mm	17.5 mm	19.0 mm	"C"
5.1 - 7.6 mm	7.6 - 10.2 mm	10.2 - 12.7 mm	"E"
14.3 mm	14.3 mm	15.8 mm	"D"



Part number example -
Nylon 6/6 V2 = TRSTL-250-20-01

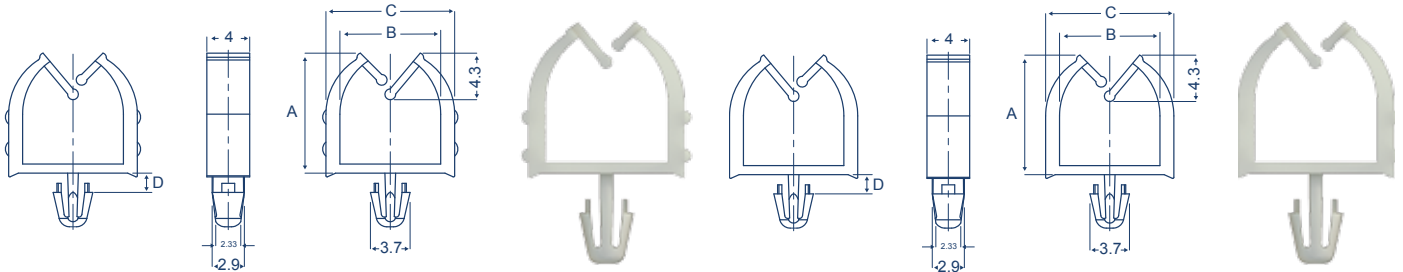
Cable Management

Wire Saddles



Micro Wire Saddle - Arrowhead | TRMWSEA1 | TRMWSEA2

Type: Micro Wire Saddle - Arrowhead
 Material: Nylon 6/6 V2 / TMS 001, Nylon 6/6 V0 / TMS 019
 Colour: Natural
 Unit: Standard Pack
 mm: 1,000 per bag



Part: TRMWSEA1						
Part Number	"A"	"B"	"C"	"D"	Panel	Hole
TRMWSEA1 - 1 - 01	7.3	6.7	9.1	1.8	1.6	3.0
TRMWSEA1 - 2 - 01	9.1	8.2	10.8			
TRMWSEA1 - 3 - 01	11.2	9.4	12.0			
TRMWSEA1 - 4 - 01	13.0	9.4	12.0			

Part: TRMWSEA2						
Part Number	"A"	"B"	"C"	"D"	Panel	Hole
TRMWSEA2 - 1 - 01	7.3	6.7	9.1	1.8	1.6	3.5
TRMWSEA2 - 2 - 01	9.1	8.2	10.8			
TRMWSEA2 - 3 - 01	11.2	9.4	12.0			
TRMWSEA2 - 4 - 01	13.0	9.4	12.0			

TRMWSEA1 - 1 - 1 - 01	7.3	6.7	9.1	2.6	2.4	3.0
TRMWSEA1 - 1 - 2 - 01	9.1	8.2	10.8			
TRMWSEA1 - 1 - 3 - 01	11.2	9.4	12.0			
TRMWSEA1 - 1 - 4 - 01	13.0	9.4	12.0			

TRMWSEA2 - 1 - 1 - 01	7.3	6.7	9.1	1.8	2.4	3.5
TRMWSEA2 - 1 - 2 - 01	9.1	8.2	10.8			
TRMWSEA2 - 1 - 3 - 01	11.2	9.4	12.0			
TRMWSEA2 - 1 - 4 - 01	13.0	9.4	12.0			



Part number example -
 Nylon 6/6 V2 = TRMWSEA1-1-01
 Nylon 6/6 V0 = TRMWSEA1-1-19

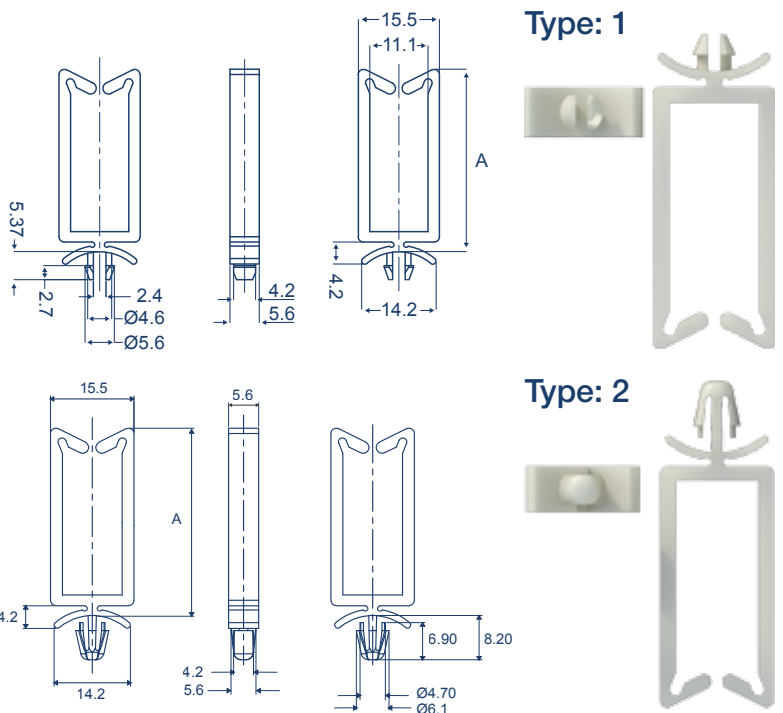
TRMWSEA1 = 3.0 mm Hole
 TRMWSEA2 = 3.5 mm Hole

Narrow Wire Saddle (Arrowhead) | TRWS

Type: Narrow Wire Saddle Arrowhead
 Material: Nylon 6/6 V2 / TMS 001, Nylon 6/6 V0 / TMS 019
 Colour: Natural
 Hole Dia: 4.75 ± 0.08 mm
 Unit: mm
 Standard Pack: 1,000 per bag

Part Number - Type 1	Part Number - Type 2	"A" ± 0.4
TRWS - 1 - 01	TRWS - A - 1 - 01	13.0
TRWS - 2 - 01	TRWS - A - 2 - 01	18.0
TRWS - 3 - 01	TRWS - A - 3 - 01	26.9
TRWS - 4 - 01	TRWS - A - 4 - 01	34.8

Type	1	2
Panel Thickness	1.6 mm	1.6 mm



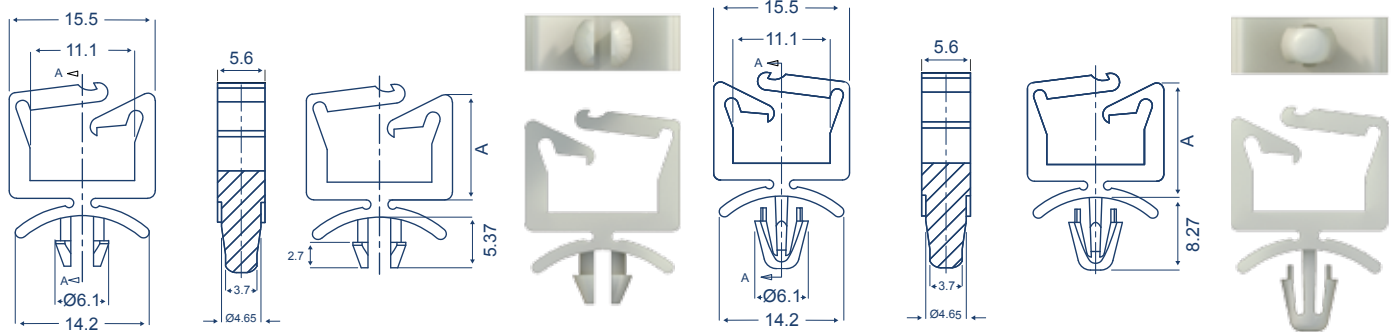
Part number example -
 Nylon 6/6 V2 = TRWS-1-01
 Nylon 6/6 V0 = TRWS-1-19

Locking Wire Saddle | TRLWS

Type Locking Wire Saddle (Arrowhead)
 Material Nylon 6/6 V2 / TMS 001
 Nylon 6/6 V0 / TMS 019
 Colour Natural
 Hole Dia 4.75 ± 0.08 mm
 Unit mm
 Standard Pack 1,000 per bag

Type 1

Type 2/2A



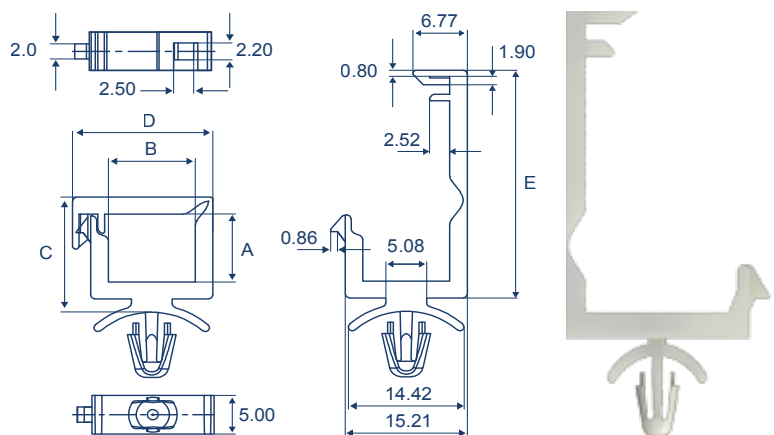
Part Number - Type 1	Part Number - Type 2	Part Number - Type 2 A	"A" ± 0.4
TRLWS - 1 - 01	TRLWS - A - 1 - 01	TRLWS - A - 2 - 1 - 01	13.0
TRLWS - 2 - 01	TRLWS - A - 2 - 01	TRLWS - A - 2 - 2 - 01	18.0
TRLWS - 3 - 01	TRLWS - A - 3 - 01	TRLWS - A - 2 - 3 - 01	27.2
TRLWS - 4 - 01	TRLWS - A - 4 - 01	TRLWS - A - 2 - 4 - 01	35.1
1	2	2 A	Type
1.6 mm	1.6 mm	3.2 mm	Panel Thickness



Part number example -
 Nylon 6/6 V2 = TRLWS-4-01
 Nylon 6/6 V0 = TRLWS-4-19

Locking Wire Saddle Locking Top | TRWSLT

Type Locking Wire Saddle Locking Top
 Material Nylon 6/6 V2 / TMS 001
 Colour Natural
 Hole Dia & Panel Thickness $\varnothing 4.8 \pm 0.1 \text{ mm}^* 1.57 \text{ mm}$
 Unit mm
 Standard Pack 1,000 per bag



Part Number	"A"	"B"	"C"	"D"	"E"
TRWSLT - 01A - 01	4.8	10.7	10.6	16.8	25.5
TRWSLT - 01 - 2 - 01	8.8	10.7	14.6	16.8	29.7



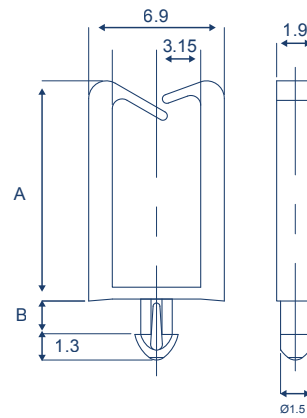
Part number example -
 Nylon 6/6 V2 = TRWSLT-01A-01

Cable Management

Wire Saddles

Mini Wire Saddle - Teardrop Head | TRMWS

Type Mini Wire Saddle - Teardrop Head
 Material Nylon 6/6 V2 / TMS 001
 Nylon 6/6 V0 / TMS 019
 Colour Natural
 Hole Dia 1.75 ± 0.05 mm
 Unit mm
 Standard Pack 1,000 per bag



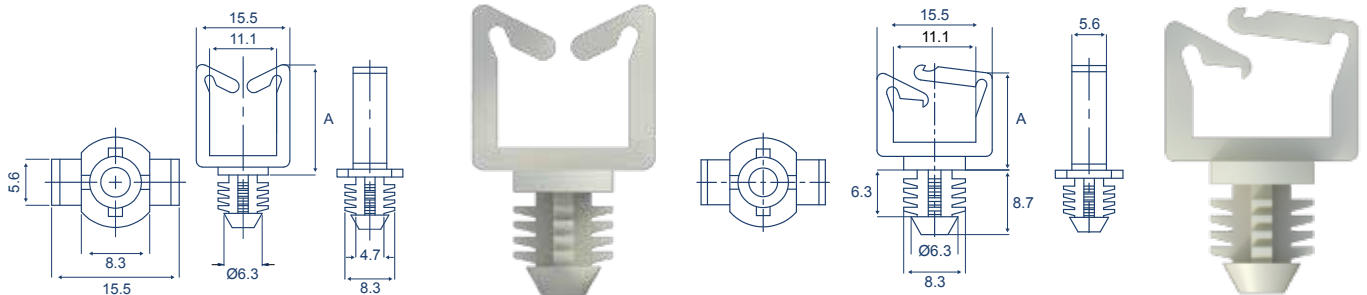
Part Number	"A"	"B"	Panel Thickness
TRMWS - 1 - 01	5.8	1.70	1.57
TRMWS - 2 - 01	11.2	1.70	1.60
TRMWS - 3 - 01	11.2	2.30	2.20
TRMWS - 1 - 1 - 01	5.8	2.45	2.36



Part number example -
 Nylon 6/6 V2 = TRMWS-1-1-01
 Nylon 6/6 V0 = TRMWS-1-1-19

Mini Wire Saddle - Blind Head | TRWSBH

Type Mini Wire Saddle - Blind Head
 Material Nylon 6/6 V2 / TMS 001
 Colour Natural
 Unit mm
 Standard Pack 1,000 per bag



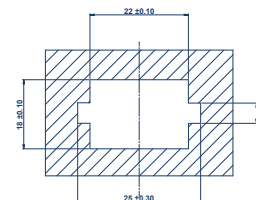
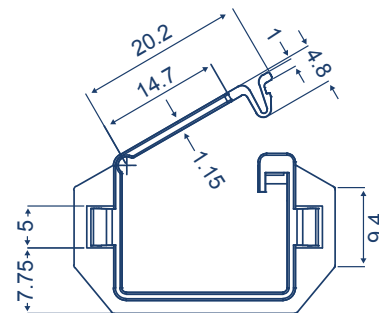
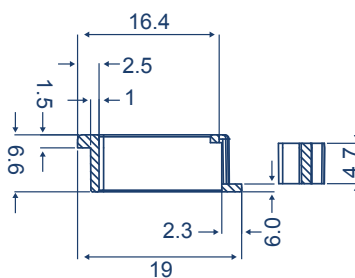
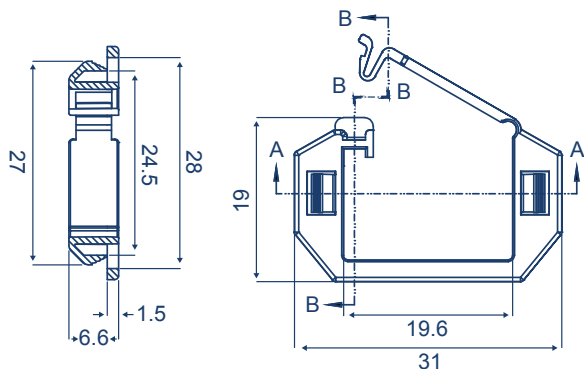
Part Number - Type 1	Part Number - Type 2	"A" ± 0.4
TRWSBH - 1 - 01	TRLWSBH - 1 - 01	13.0
TRWSBH - 2 - 01	TRLWSBH - 2 - 01	18.3
TRWSBH - 3 - 01	TRLWSBH - 3 - 01	27.2
TRWSBH - 4 - 01	TRLWSBH - 4 - 01	35.6
Type	1	2
Hole Dia.	7.9 ± 0.08 mm	7.9 ± 0.08 mm
Panel Thickness	6.4 mm	6.4 mm



Part number example -
 Nylon 6/6 V2 = TRWSBH-4-01

Hinged Edge Wire Saddle-Type 1 - TRHEWSE-22

Type Hinged Edge Wire Saddle
 Material Nylon 6/6 V2 / TMS 001
 Nylon 46/ TMS 999
 Colour Natural/Red
 Unit mm
 Standard Pack 1,000 per bag



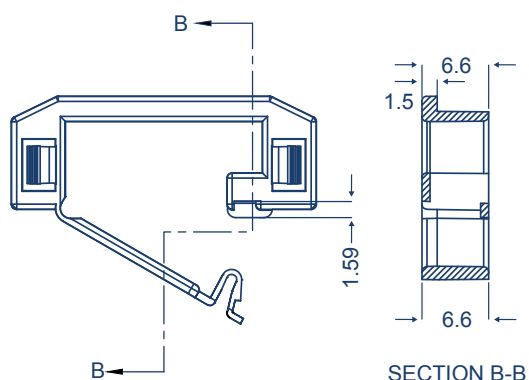
Panel Mounting Instructions



Part number -
 Nylon 6/6 V2 = TRHEWSE-22-01-N

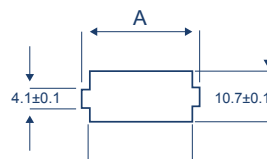
Hinged Edge Wire Saddle-Type 2 - TRHEWSE-25

Type Hinged Edge Wire Saddle
 Material Nylon 6/6 V2 / TMS 001
 Nylon 46/ TMS 999
 Colour Natural/Red
 Unit mm
 Standard Pack 1,000 per bag

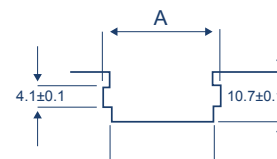


SECTION B-B

Panel Mounting Instructions	
Panel Thickness	A
08 - 1.6	25.0 ±0.1
2.0	26.0 ±0.1



Through Hole Installation



Edge Installation



Part number -
 Nylon 6/6 V2 = TRHEWSE-25-01

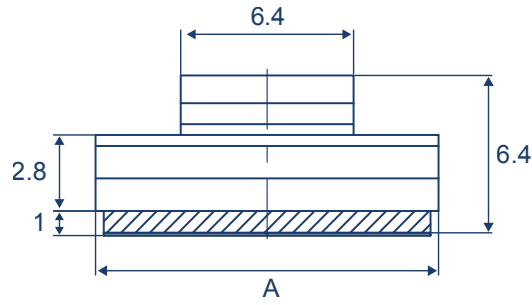
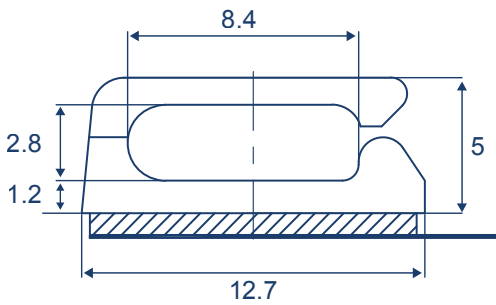
Cable Management

Micro-Adhesive Base



Micro Wire Saddle on Adhesive Base - TRMWSSEBE

Type: Micro Wire Saddle on Adhesive Base
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural
 Unit: mm
 Standard Pack: 1,000 per bag



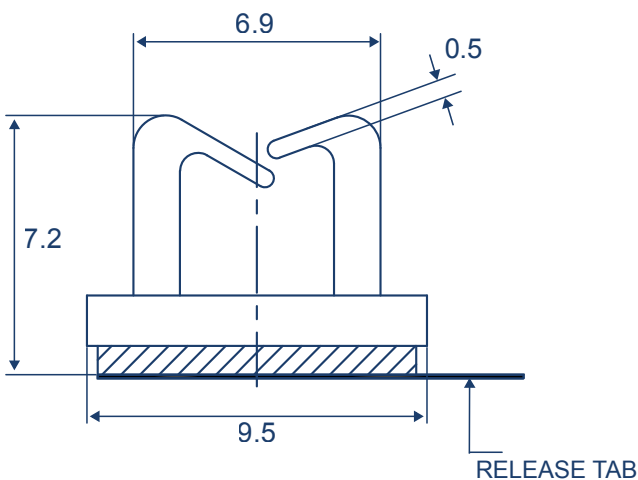
Part Number	"A" ± 0.4	Adhesive Size
TRMWSSEBE - 1 - 01A2 - RT	12.7	12.7x12.7x0.8
TRMWSSEB - 1 - 01A2 - RT	9.5	12.7x9.5x0.8



Part number example -
 Nylon 6/6 V2 = TRMWSSEBE-1-01A2-RT

Micro Wire Saddle on Adhesive Base - TRMWSB

Type: Micro Wire Saddle on Adhesive Base
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural
 Unit: mm
 Standard Pack: 1,000 per bag
 Adhesive Size: 9.5x9.5x0.8



Part number -
 Nylon 6/6 V2 = TRMWSB-1-01A2-RT

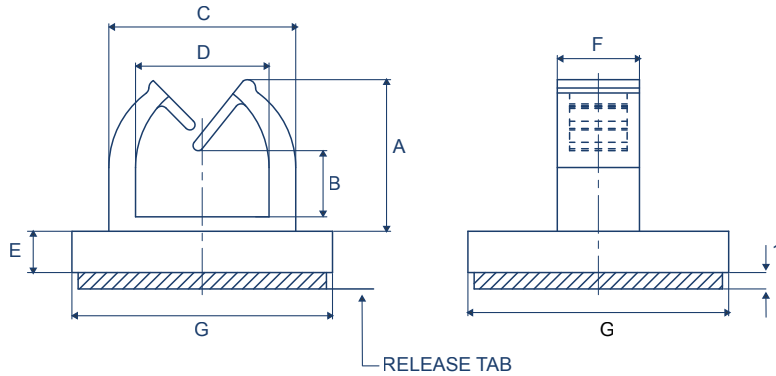
Cable Management

Micro-Adhesive Base



Micro Wire Saddle on Adhesive Base - TRMWSEB

Type: Micro Wire Saddle on Adhesive Base
 Material: Nylon 6/6 V2 / TMS 001
 Colour: Natural
 Unit: mm
 Standard Pack: 1,000 per bag



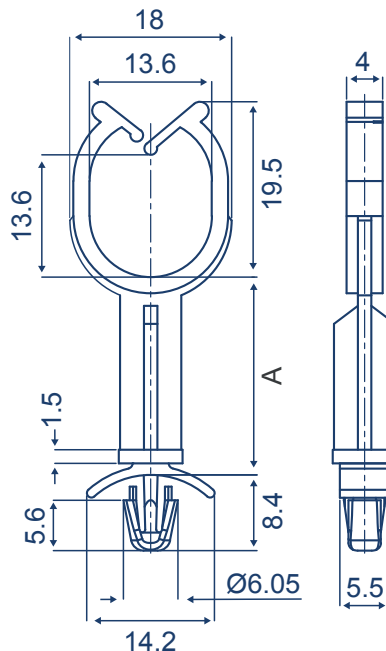
Part Number	Adhesive Size	"A"	"B"	"C"	"D"	"E"	"F"	"G"
TRMWSEB - 1 - 01A2 - RT	9.4x9.4x0.8	4.2	1.0	7.1	4.6	1.5	2.0	9.4
TRMWSEB - 2 - 01A2 - RT		6.0	2.8					
TRMWSEB - 3 - 01A2 - RT		7.4	3.2					
TRMWSEB - 4 - 01A2 - RT	12.7x12.7x0.8	9.1	4.1	10.7	7.9	2.0	4.0	12.7
TRMWSEB - 5 - 01A2 - RT		11.3	6.1	11.9	8.9			
TRMWSEB - 6 - 01A2 - RT		12.9	7.6					



Part number example -
 Nylon 6/6 V2 = TRMWSEB-1-01A2-RT

Stand-off Harness Clip | TRSHK

Type: Stand-off Harness Clip
 Material: Nylon 6/6 V2 / TMS 001
 Nylon 6/6 V0 / TMS 019
 Colour: Natural
 Hole: 4.75 ± 0.05 mm
 Panel Thickness: 1.6 mm
 Unit: mm



Part Number	"A" ± 0.4
TRSHK - 6 - 01	6.0
TRSHK - 8 - 01	8.0
TRSHK - 10 - 01	10.0
TRSHK - 12 - 01	12.0
TRSHK - 14 - 01	14.0
TRSHK - 16 - 01	16.0
TRSHK - 18 - 01	18.0
TRSHK - 20 - 01	20.0
TRSHK - 22 - 01	22.0
TRSHK - 24 - 01	24.0
TRSHK - 26 - 01	26.0
TRSHK - 28 - 01	28.0



Part number example -
 Nylon 6/6 V2 = TRSHK-28-01
 Nylon 6/6 V0 = TRSHK-28-19

Cable Management

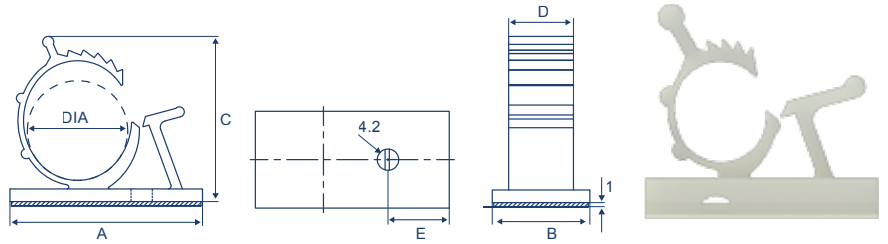
Clips



Releaseable Adjustable Clip with Adhesive Base | TRAKKL

Type Adjustable Clip Release
Adhesive Base
Material Nylon 6/6 V2 / TMS 001
Colour Natural
Unit mm
Standard Pack 1,000 per bag

Adjustable to hold various cable diameters
Locks securely and can be re-opened



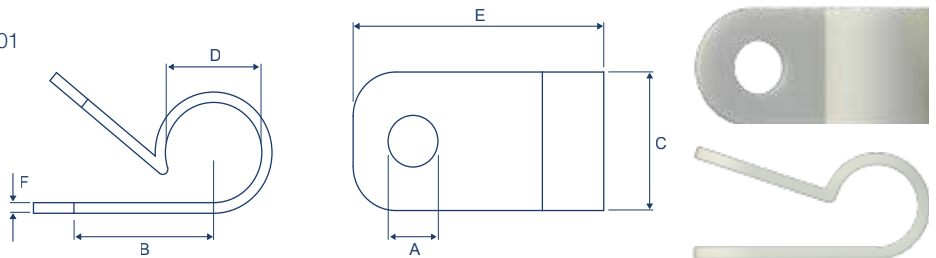
Part Number	Adhesive Size	"A"	"B"	"C"	"D"	"E"	"DIA"
TRAKKL - 2140A4-RT	21.6x16.5x0.8	21.6	16.5	18.0	10.0	8.0	5.5 ~ 6.5
TRAKKL - 3140A4 - RT	25.4x19.0x0.8	25.4	19.1	22.0	10.2	9.0	7.0 ~ 10.3
TRAKKL - 4756A4 - RT	31.5x19.0x0.8	31.5		27.7		10.0	11.9 ~ 14.3
TRAKKL - 5775A4 - RT	38.1x19.0x0.8	38.1	25.4	32.8	12.7	12.0	14.7 ~ 19.1
TRAKKL - 8710A4 - RT	50.5x25.0x0.8	50.5		44.5		16.0	22.2 ~25.4



Part number example -
Nylon 6/6 V2 = TRAKKL-3140A4-RT

P Clips | TRUC

Type P Clip
Material Nylon 6/6 V2 / TMS 001
Colour Natural/Black
Unit mm
Standard Pack 100 per bag



Part Number	A	B	C	Bundle Dia. (D)	E	F
TRUC-0	4.8	8.0	9.6	3.2 (1/8")	17.0	1.2
TRUC-0.5		9.2		4.8 (3/16")		
TRUC-1	4.6	10.0	10.0	6.35 (1/4")	20.0	1.4
TRUC-1.5		12.0		7.9 (5/16")		
TRUC -2	5.0	12.5	12.0	9.5 (3/8")	24.0	1.5
TRUC-3		15.2		12.7 (1/2")		
TRUC-4	4.6	18.2	11.8	15.8 (5/8")	34.3	1.8
TRUC-5		22.0		19.4 (3/4")		
TRUC-6	4.6	24.0	12.0	25.4 (1")	43.0	1.8
TRUC-6.5		26.2		27.5 (1 1/16")		
TRUC-7		28.0		31.8 (1 1/4")		
TRUC-9		30.0		36.7 (1 1/2")	50.0	



Part number example -
Nylon 6/6 V2 = TRUC-0.5-Black

The following material specification is used for identification of manufacturers materials and their properties. All data is obtained from the suppliers of raw materials. It does not represent a binding guarantee. TR Fastenings reserve the right to change manufacturer without notice.

The test material according to UL (Underwriter's Laboratories Inc.R) allow classification of polymers according to their flame retardance.

With a horizontal and vertical test of fire behaviour under the influence of an open flame. Detailed information on UL ,can be downloaded at, www.ul.com. The ratings are: UL94 -HB/V2/V1/V0

The temperature ranges of the various materials are guidelines received from the respective raw material manufacturers. It does not represent a binding guarantee. TR Fastenings reserve the right to change manufacturer without notice.

TMS Nr.	Material	UL-File Nr.	UL Classification	RoHS Compliant	Material Temperature Range					
					°C			°F		
001	Nylon 6/6	E70062	V2	Yes	-20	-	85	-4	-	185
003	PC	E45587	HB	Yes	-40	-	115	-40	-	239
008	PP	E63499	HB	Yes	0	-	65	32	-	149
014	POM Acetal	E38860	HB	Yes	-50	-	90	-58	-	194
019	Nylon 6/6	E70062	V0	Yes	-40	-	105	-40	-	221
026	PVC	E54709	V0	Yes	0	-	105	32	-	221
039	POM Acetal	E66288	HB	Yes	-40	-	100	-40	-	212
042	TPR	E80017	HB	Yes	-60	-	135	-76	-	275
052	Nylon 6	E41871	V2	Yes	-40	-	65	-40	-	149
072	PC Polycarbonate	E123529	V2	Yes	-40	-	80	-40	-	176
103	Nylon 66/6	E41871	V0	Yes	-40	-	65	-40	-	149
120	Nylon 6	E119177	V2	Yes	-40	-	152	-40	-	306
158	TPV	E80017	HB	Yes	-50	-	90	-58	-	194
173	Nylon 6 Glass Filled	E76261	HB	Yes	-20	-	140	-4	-	284

RoHS Directives

RoHS (Restriction on Hazardous Substances) refers to the Directive 2002/95/EC of the European Parliament of 27 January 2003 - This directive bans from 1 July 2006, the subsequent use of hazardous substances in electrical and electronic equipment. Lead, mercury, cadmium, hexavalent chromium, polybrominated Biphenyl (PBB), polybrominated biphenyl ethers (PBDEs).

The WEEE (Waste Electronic Equipment) refers to Directive 2002/95/EC of the European Parliament of 27 January 2003. This policy is primarily to avoid the waste of electrical and electronic equipment, as well as their recycling. Please contact us if you need information regarding the RoHS or WEEE.

All data has been provided by the manufacturers of the raw materials available. It does not represent a binding guarantee TR Fastenings reserve right to change manufacturer without notice. TR Fastenings assumes no responsibility. All information (images, drawings, specifications) in this catalogue are not binding commitments and must be checked independently by the user to ensure product is fit for purpose. Technical changes are always reserved.



Material: Nylon (ROHS)

The material used for the moulded products is Nylon. Its many compositions have most of the properties that are required in the electrical/electronic industry such as:

- **Light Weight**
- **Strength** at low and high temperature
- **Resistance** to impact, abrasion, organic solvents and gasoline
- **Retention of shape** and stiffness at high temperature
- **Flammability rating**
- Colour: **natural and black**. All other RAL-Colours on request
- **ROHS** - Material suppliers to certify compliance with the Restriction of Hazardous Substances in electrical & electronic products.
- **Cost Reduction** where single application plastic part can replace multiple existing parts.
- **Moisture:** Nylon parts are **hygroscopic** (ability to hold water molecules drawn in from its surroundings). Therefore, when injection moulded, nylon parts **retain latent heat** from the manufacturing process and **continue to absorb moisture**.

All of our parts have **water added** before being packed in **sealed plastic bags** to ensure the integrity of the material and to prevent the parts from becoming brittle.

We strongly recommend continued storage of plastic parts in sealed bags.

- **Shelf Life:** All nylon products need be stored in the original, **unopened bag at 22°C to 35°C** and **50% relative humidity**. If these conditions are met the shelf life will be one year from the date of shipment.
- **UL Flame Rating:** UL94 classifications V0, V1, V2 and HB describe the flame retardancy levels for a given resin. V0 rated resins typically have the highest flame resistance followed by V1, V2 and HB.
- **Tolerances:** ,xx ± 0,25

Acrylic Adhesive Tape (Release Tab)

- **Shelf Life:** The adhesive used has a shelf live of 12 months if stored correctly. Adhesive parts should be stored in the **original bags at room temperature of 22°C to 35°C**.
- **Surface:** The bonding surface must be **clean, uniform, dry** and **free of condensation**.
- Do not use on **fabric or rough, loose surfaces**.
- **Release Tab:** Remove the releaser liner being very careful not to touch the adhesive surface and then quickly and firmly rub the product into place. **Firm pressure** is needed to ensure full contact.
- **Tapes are not UI-rated**
- Material temperature range is: **-20°C to +60°C**.

Quality

- All material is **ISO 14001/2004** compliant.



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Spacers & Pillars

Range: F/F Female/Female, M/F Male/Female, M/M Male/Male and Through Hole.

Materials: Steel, stainless steel, brass, aluminium, black nylon, white nylon.



TR Branded Products

Our own range of fastener solutions for specific industries and applications, including:

Fasteners for sheet metal, fasteners for plastic, security fasteners, thread-locking nuts and micro-diameter fasteners from M0.6.



Sheet Metal Fasteners

Cage nuts, blind rivets, blind rivet nuts, Hank® rivet bushes, K-nuts, self clinch, swage nuts, weld nuts & studs.

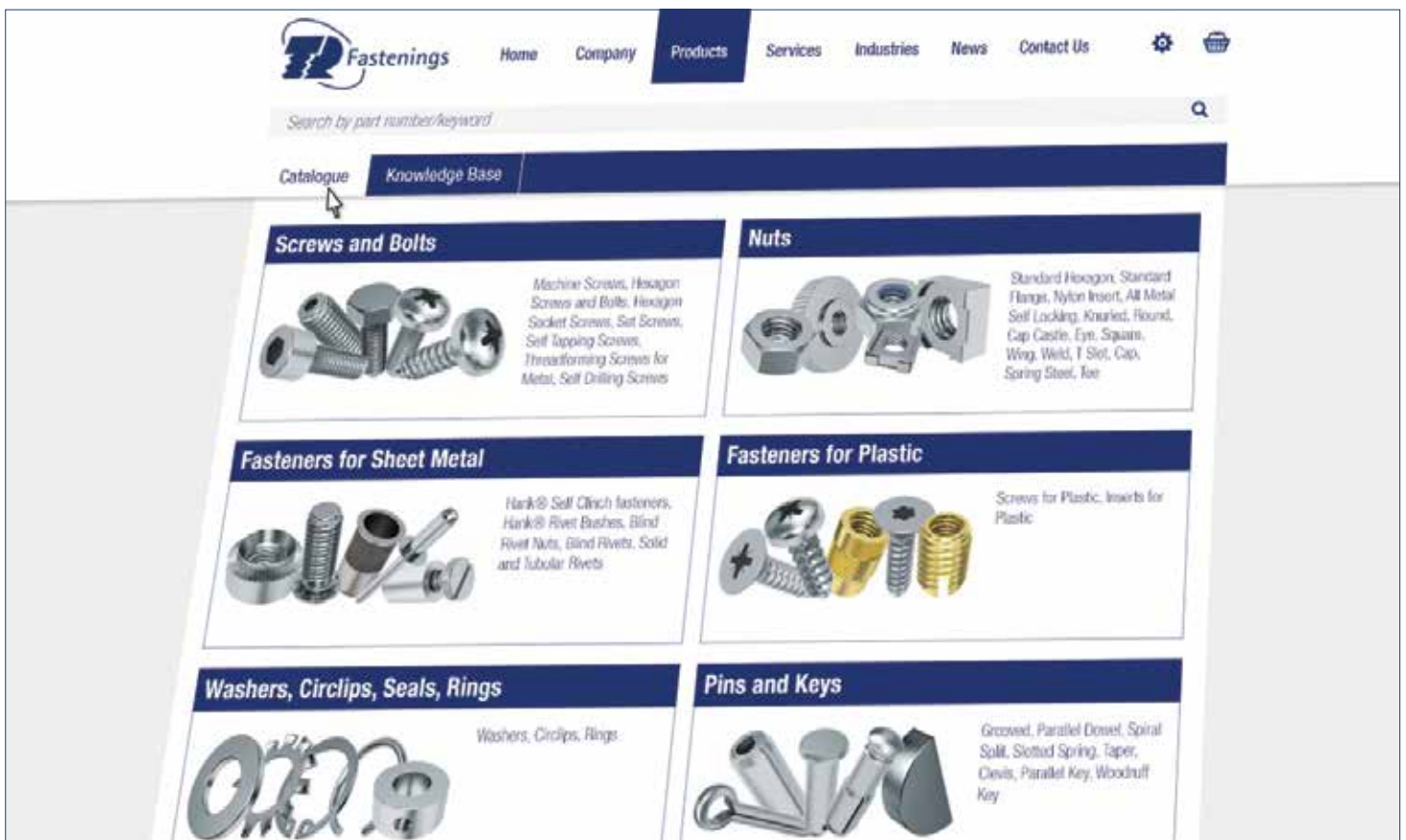


Other Components

For customers we supply via a Vendor Managed Inventory system such as Direct Line Feed, we can include non-fastener products as part of the supply agreement. We can supply practically any high-volume, low-cost components including:

Cables, clips, plastic parts, connectors, switches, springs, batteries, hinges, levers, handles, brackets, hooks, pins, keys, spacers and stays plus much more.





More features, more products and more data

www.trfastenings.com is designed to be the ultimate go-to resource for engineers, designers and buyers, with improved navigation and functionality throughout.

With an annual output of over 50 billion components, TR supplies to a wide range of industries, from automotive, electronics, telecoms and domestic appliances to marine, audio, petrochemical and general industrial.

The TR website features an online catalogue of over 40,000 products for use in all sectors, from TR's own branded range of fasteners including Hank® self-clinch fasteners and rivet bushes, self-locking nuts, inserts and screws for plastic, blind rivets and rivet nuts, plastic fasteners and cable management products to screws, nuts, washers and specially manufactured parts.

Combining a modern design with a powerful search tool it has never been easier to find the product required. Users can simply search for the product or product range required using any number of search terms and choose from a range of items available and related technical

information. Once the product and size needed has been selected, users can view, send or download a dynamically generated 2D drawing for the part that includes all related dimensional data, download the related 3D model in a number of formats and save the part to the enquiry basket.

In addition, the website carries an extensive Engineering Knowledge Base, which includes:

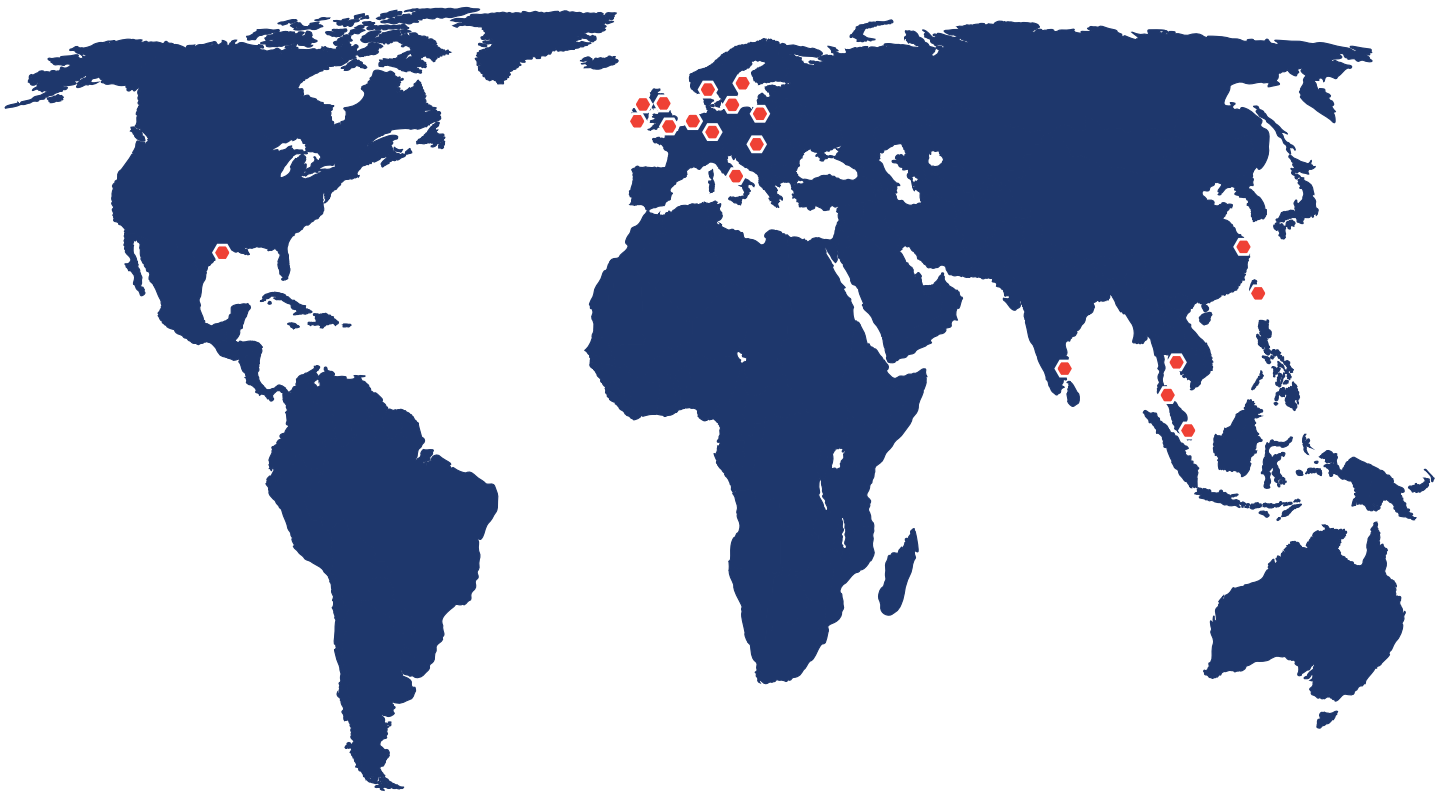
- A comprehensive range of 2D/3D fastener models available to download
- Step-by-step animated installation guides
- Tooling requirements and related technical information
- Detailed performance data
- Material and finish specifications
- Fastener standards and comparison tables
- Key industries and the services we supply

TR Fastenings is a full service provider and the TR website also features sections on the key industries it supplies and the services and technical support available to its customers, from engineering and design through to specification, manufacturing, quality and logistics.

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