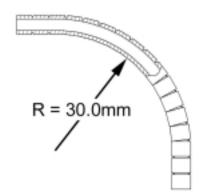
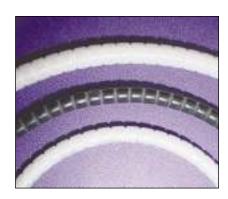
OFBLTOptical Fiber Bend Limiting Tubing



Miniflex technology manufactured by Richco – Patented





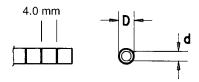
Description

The routing of fiber, cable and patch cords in racks and cable nodes is generally a difficult exercise. The resulting "spaghetti" is prone to transient losses and transmission failures, seriously risking fiber life and efficiency.

Miniflex Optical Fiber Bend Limiting Tubing (OFBLT) gives the highest available protection to these problems by resisting crushing and kinking and limiting fiber bends to an acceptable radius. A range of fittings and adapters are available for use with the Optical Fiber Bend Limiting

-Tubing. This allows fiber routing management, patching, reconfiguration and rough handling to occur repeatedly without fiber breaks or unintentional transmission loss.

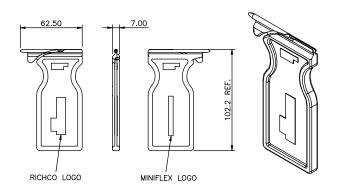
- · Smooth bore
- · Bend limitation at a controlled radius of 30mm
- Can be cut to length with fiber inside
- Suitable for fiber or patch cords up to .12 (3.1mm) OD
- · Crush protection
- Improved fiber management
- Bend-limiting modulus: > 8 (see graph)
- Crush resistance is measured over 100mm; distortion < .5mm



Pai	rt No.	Standard Pack: 100 meters / reel			
Material: Polypropylene	Material: P.B.T. UL94 V-0 Rated	D	4	Crush Resistance	
Color: White	Color: Black	b	d	Grush Resistance	
		STANDARD VERSION			
OFBLT-2.6-05-PP	_	.20 (5.0mm)	.10 (2.6mm)	>1.0kN	
OFBLT-3.1-05-PP	OFBLT-3.1-05-PBT V0	.20 (5.0mm)	.12 (3.1mm)	>0.5kN	
OFBLT-4.2-635-PP	OFBLT-4.2-635-PBT V0	.25 (6.35mm)	.17 (4.2mm)	>0.5kN	
		PULL-CORD VERSION		•	
OFBLT-P-2.6-05-PP	_	.20 (5.0mm)	.10 (2.6mm)	>1.0kN	
OFBLT-P-3.1-05-PP	OFBLT-P-3.1-05-PBT V0	.20 (5.0mm)	.12 (3.1mm)	>0.5kN	
OFBLT-P-4.2-635-PP	OFBLT-P-4.2-635-PBT V0	.25 (6.35mm)	.17 (4.2mm)	>0.5kN	
		SLIT VERSION			
OFBLTS-2.6-05-PP	_	.20 (5.0mm)	.10 (2.6mm)	N/A	
OFBLTS-3.1-05-PP	OFBLTS-3.1-05-PBT V0	.20 (5.0mm)	.12 (3.1mm)	N/A	
OFBLTS-4.2-635-PP	OFBLTS-4.2-635-PBT V0	.25 (6.35mm)	.17 (4.2mm)	N/A	

OFZT-2-14-RED

OFBLT Zip Tool - 2mm (For Fiber Bundles up to 2mm Diameter)



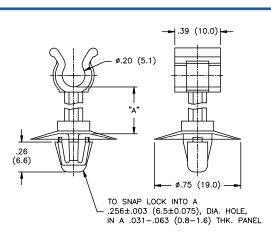
Features

• To be used with OFBLTS-2.6-05 tubing

Material: Acetal, RMS-14 • Color: Red Standard Pack: 1 Dimensioned in millimeters



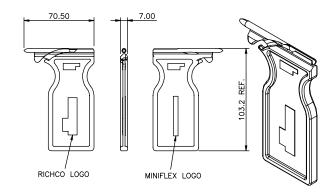




Color: Natural							
Material: Nylon 6/6,	Material: Flame Retardant Nylon,	Standard Pack: 1000					
RMS-01 Part No	RMS-19 Part No.	"A"					
TPCE-5-5.1-4M-01	TPCE-5-5.1-4M-19	.16 (4.0)					
TPCE-5-5.1-6M-01	TPCE-5-5.1-6M-19	.24 (6.0)					
TPCE-5-5.1-8M-01	TPCE-5-5.1-8M-19	.32 (8.0)					
TPCE-5-5.1-10M-01	TPCE-5-5.1-10M-19	.39 (10.0)					

OFZT-3-14-BLK

OFBLT Zip Tool - 3mm (For Fiber Bundles up to 3mm Diameter)

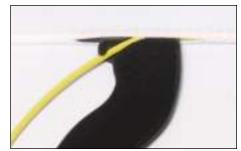


Features

• To be used with OFBLTS-3.1-05 or OFBLTS-4.2-635 tubing

Material: Acetal, RMS-14 · Colo	r: Red				
Standard Pack: 1					

Dimensioned in millimeters

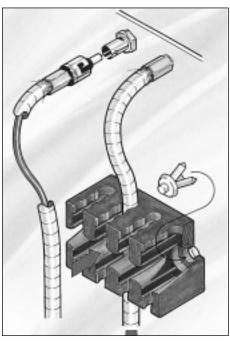


TPCE-5-5.1
Tube & Pipe Clip



- Holds 5mm OD Optical Fiber Bend Limiting Tubing (OFBLT) for routing through any design.
- Excellent for above board routing requirements.

OFSMBOptical Fiber Slotted Multi Bracket



Miniflex technology manufactured by Richco – Patented



Description

Miniflex Optical Fiber Slotted Multi Brackets (OFSMB/OFSSMB) are for use at distribution points where orderly fiber management, protection and strain relief is required.

Slotted Multi Brackets can be adapted to individual needs with the use of Miniflex Optical Fiber Bend Limiting Tubing (OFBLT). From the initial fiber entry point, superior fiber protection against bending, crushing and kinking is secured. Assembly of tubes is made easy by a simple "lay-through" design, no threaded is required. Mounting of either bracket is easy, using screws or push rivets as shown.

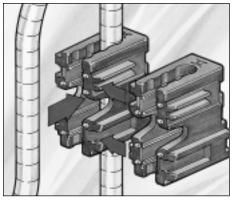
An additional security feature allows fitting of a cable tie around SSMB's which prevents removal of any retained tubes.

Features

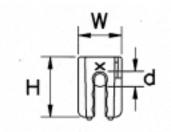
- OFBLT retention: >70N (22 lbs.)
- Holds a maximum of 12 tubes

Material: Glass Filled Flame Retardant Nylon, RMS-104 (UL 94VO) • Color: Black							
Dout No.	Standard Pack: 10/ bag						
Part No.	DØ	Α	d Ø	Н	L	W	
OFSMB-4-05-GFBLK	.20 (5.0 mm)	.39 (10.0 mm)	.20 (5.0 mm)	.78 (20.0 mm)	1.57 (40.0 mm)	.98 (25.0 mm)	

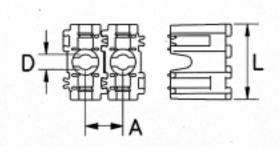
OFSSMB
Optical Fiber Single Slotted
Multi Bracket







- OFBLT retention: >70N (22lb.)
- Holds a maximum of 3 tubes
- · Ability to latch to other SSMB's



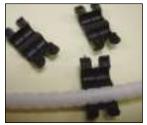
Miniflex technology manufactured by Richco – Patented

Material: Glass Filled Flame Retardant Nylon, RMS-104 (UL 94VO) • Color: Black							
Part No.		Standard Pack: 10/ bag					
Part No.	DØ	Α	d Ø	Н	L	w	
OFSSMB-1-05-GFBLK	.20 (5.0mm)	.49 (12.5 mm)	.20 (5.0 mm)	.78 (20.0 mm)	.98 (25.0 mm)	.57 (14.5 mm)	

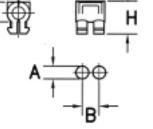
Description

The Miniflex Optical Fiber Tube Gripper Saddle (OFTGS) enables Optical Fiber Bend Limiting Tube (OFBLT) to be anchored to a chassis or splice tray by the simple provision of 2 holes.

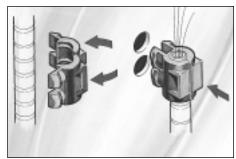
The saddle is placed over the OFBLT and closed down to engage on the external grooves of the tube, no threading is required. Secure attachment is completed by pressing the retaining feet through location holes



- · Mid point or end termination of **OFBLT**
- · Easy to locate and use
- · Provides secure fixing
- · Controlled routing of fiber circuits
- Maximum panel thickness: 1.75mm (.068")



OFTGS Optical Fiber Tube Gripper Saddle

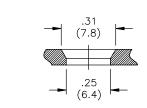


Miniflex technology manufactured by Richco -Patented

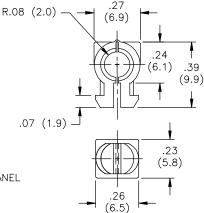
Part No.	Material	Color	Standard Pack:	h	Α	В	н	L	w
OFTGS-1-05-E901	Elastomer, RMS-98	Black	100/bag	.24	.20	.275	.39	.39	.26
OFTGSP-2-05-19	Flame Retardant Nylon 6/6, RMS-19	Natural	100/bag	(6.1mm)	(5.0mm)	(7.0mm)	(10.0mm)	(10.0mm)	(6.5mm)

Features

· Requires only one hole for mounting



MOUNTING HOLE DETAIL .095(2.4) MAXIMUM THICK PANEL



Material: Nylon 6/ 6 Flame Retardant, RMS-19 · Color: Natural Standard Pack: 100 per bag

OFTGSP-1-05-19 Optical Fiber Tube Gripper Saddle



Miniflex technology manufactured by Richco -Patented

Description

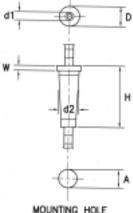
The Miniflex Optical Fiber Strain Relief Gland (OFSRG) enables ruggedized patch cords, or fiber bundles, protected in Optical Fiber Bend Limiting Tube (OFBLT) to be anchored to a chassis, or distribution trunking system, by the simple provision of a single hole.

The OFBLT is passed through the gland and is secured by the integral Tube Gripper Clip. This ensures a pull out resistance of over 100N (22 lbs.) while still ensuring a 30mm radius bend control and crush protection.



Features

- OFBLT retention: >100N (22 lbs.)
- · Mid point or end term
- Provides secure fixing

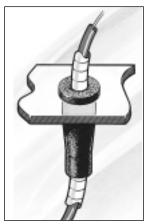


MOUNTING HOLE

point of end	
nination of OFBLT	
uidaa aasuus fiuisa	

Material: PVC • Color: Black							
Part No.	Standard Pack: 10/ bag						
Part No.	DØ	d1 Ø	d2 Ø	ΑØ	Н	W	
OFSRG-05-BLK	.59 (15.0mm)	.20 (5.0mm)	.47 (12.0mm)	.43 (11.0 mm)	1.46 (37.0 mm)	0.12 (3.0mm)	
OFBRG-05-BLK also available without Tube Gripper Clip to provide bending relief only							

OFSRG Optical Fiber Strain Relief Gland

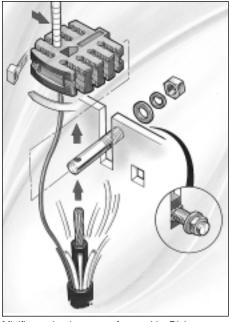


Miniflex technology manufactured by Richco -Patented



OFCBU/OFCBUGB

Optical Fiber Cable Breakout Unit



Miniflex technology manufactured by Richco – Patented

OFCBUGB - "Gland Box"





Description

At distribution points, multi-fiber cables need to have the individual fibers or cable elements separated and protected by a management system.

The cable strength member has to be terminated and anchored to prevent damage to the fibers from cable movement or pull out.

The Miniflex Optical Fiber Cable Breakout Unit (OFCBU) affords quick, easy and positive arrangements of the fibers or cable elements, which are sheathed in Miniflex Optical Fiber Bend Limiting Tubing (OFBLT) to give permanent protection. Assembly of tubes is made easy by a simple "lay through" design, no threading is required.

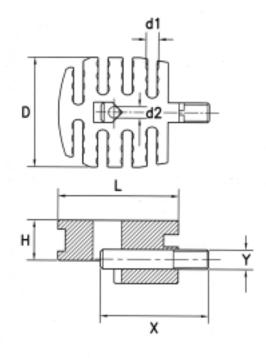
The strength member retainer is simply inserted over the terminated cable as shown and clamps both the cable and the breakout unit to the jointing chassis.

A secure fiber management system that minimizes installation time and maximizes fiber integrity and security. Once installed, it can be left with total peace of mind.

For further protection, a GRP Gland box is available. Please contact the factory for details.

Features

- Cable retention: >1.5kN (337 lbs.)
- OFBLT retention: >100N (22 lbs.)
- Maximum of 24 cable elements or 24 fiber bundles



Part Number	Cable Diameter
OFCBUGB-00	4.0 - 8.5
OFCBUGB-0	7.5 - 20.0
OFCBUGB-1	9.5 - 13.0
OFCBUGB-2	13.0 - 18.0
OFCBUGB-3	17.5 - 25.0

Dimensioned in millimeters

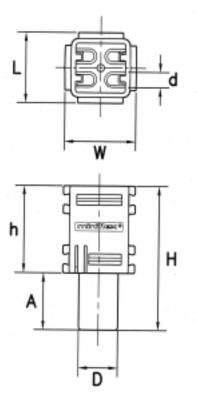
Material: Flame Retardant Nylon, RMS-19 (UL 94V0); Bolt: Stainless Steel • Color: Black							
Doub No.		Standard Pack: 10/ bag					
Part No.	d1	d2	D	Н	L	Х	Υ
OFCBU-24-05-19BLK	.20 (5.0 mm)	.19 (4.7mm)	1.73 (44.0 mm)	.63 (16.0 mm)	1.93 (49.0 mm)	1.73 (44.0 mm)	.31 (8.0 mm)

Description

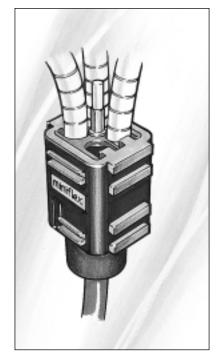
The Miniflex, 1 into 4, Optical Fiber Manifold (OFM) enables small multiple fiber cables with aramid and similar strength reinforcement or central GRP strength member to be mechanically and securely terminated. Optical Fiber Bend Limiting Tubing (OFBLT) at the output ports gives full radius control and crush protection while still allowing an easy to route fiber "lay-through" design. OFBLT can also be used at the input port

Features

- Fiber Bend Control: 30mm (1.18") radii minimum
- · Ability to stack
- Tube retention: >100N (22 lbs.)
- For OFM Crimp Rings (For terminating GRP strength members) order: OFM-CR
- For a Development Kit containing all adaptors, order: OFM-4-05-19BLK



OFMOptical Fiber Manifold



Miniflex technology manufactured by Richco – Patented

OFM-04-PG16BLK - "Gland Box"



Part No.	D	h	Α	d	Н	L	W
OFM series	.51	1.14	.73	.20	1.87	0.91	0.91
Of M Series	(13.0 mm)	(29.0 mm)	(18.5 mm)	(5.0 mm)	(47.5 mm)	(23.0 mm)	(23.0 mm)

aterial: Flame Retardant Nylon, RMS-19 (UL 94V0) · Color Black						
Part No.	Standard Pack: 10/ bag					
Fait NO.	Incoming Cable Size Diameter	Adaptor Color				
OFM-C-1-05-19BLK	.098138 (2.5 - 3.5mm)	Black				
OFM-C-2-05-19BLK	.118157 (3.0 - 4.0mm)	Blue				
OFM-C-3-05-19BLK	.161197 (4.1 - 5.0mm)	Brown				
OFM-C-4-05-19BLK	.201236 (5.1 - 6.0mm)	Green				
OFM-C-5-05-19BLK	.240276 (6.1 - 7.0mm)	Red				
OFM-C-6-05-19BLK	.280335 (7.1 - 8.5mm)	Black Rubber				
OFM-C-7-05-19BLK	.335425 (8.5 - 10.8mm)	Black Rubber				
OFM-T-05-19BLK	.197 (5.0mm) OFBLT	Split Black				
OFM-T-635-19BLK	.197250 (5.0 - 6.35mm) OFBLT	Split Blue				

OFDOptical Fiber Duplexer



Miniflex technology manufactured by Richco – Patented

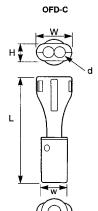
Features

- Fiber bend control: 30mm radii minimum
- Tube retention: >100N
- For a Development Kit containing all adapters, order: OFD-C-05-19BLK

Description

The Miniflex Optical Fiber Duplexer enables cables with aramid strands to be broken out and mechanically terminated. It provides an easy-to-use assembly with no crimping, while still retaining a minimum of a 100 Newton pull. Used with the 5mm diameter Optical Fiber Bend Limiting Tubing (OFBLT) at the output port, it gives full blend control and crush protection for ongoing fibers. The Duplexer gives an easy-to-use lay through facility with internal fiber radius control.

The Duplexer gives a range of input adaptors to cover OFBLT, fiber bundles, cable and patchcords from 2.5mm to 7.00mm in diameter. For cables up to 10.8mm in diameter, a rubber sleeve is provided. See cable size chart below.

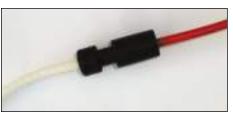


Part Number	L	W	w	Н	d
OFD series	1.95	0.64	0.52	0.31	0.20
	(49.6)	(16.2)	(13.2)	(8.0)	(5.0)

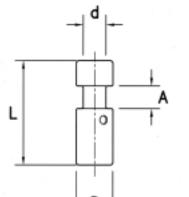
Material: Flame Retardant N	ylon, RMS-19 (UL 94V0) • Co	lor Black								
Part No.	Standard Pa	nck: 10/ bag								
Fait No.	Cable Size Diameter	Adaptor Color								
OFD-C-1-05-19BLK	.098137 (2.5 - 3.5mm)	Black								
OFD-C-2-05-19BLK	.118157 (3.0 - 4.0mm)	Blue								
OFD-C-3-05-19BLK	.161196 (4.1 - 5.0mm)	Brown								
OFD-C-4-05-19BLK	.200236 (5.1 - 6.0mm)	Green								
OFD-C-5-05-19BLK	.240275 (6.1 - 7.0mm)	Red								
OFD-C-6-05-19BLK	.280335 (7.1 - 8.5mm)	Black Rubber								
OFD-C-9-05-19BLK	.335425 (8.5 - 10.8mm)	Black Rubber								
OFD-C-7-05-19BLK	.196 (5.0mm) OFBLT	Split Black								
OFD-C-8-635-19BLK	.250 (6.35mm) OFBLT	Split Blue								

OFCPA
Optical Fiber Cable and Patch Cord
Anchor





[©]Miniflex Ltd. 1996



Description

The Miniflex Optical Fiber Cable and Patch Cord Anchor (OFCPA) enables cables with aramid strands or similar strength reinforcement to be mechanically terminated. It provides an easy-to-use assembly with no crimping, while still retaining a minimum of 100 Newton (22 lbs.) pull out. Up to 4 patch cords (diameter 2.5mm (.10") can be terminated in one anchor.

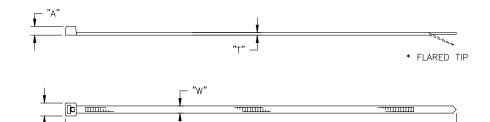
- OFBLT retention: >100N
- The OFCPA can also be used as a tube to tube uniter from OFBLT to OFBLT.
- For a Development Kit containing all adaptors order: OFCPA-05-19BLK.

Part No	DØ	Α	d Ø	L
OFCPA Series	.51	0.31	.20	1.46
	(13.0mm)	(8.0 mm)	(5.0mm)	(37.0 mm)

Material: Flame Retardant N Color: Black	ylon, RMS-19 (UL 94VO)	
	Standard Pack: 10/ bag	
Part Number	Cable Size Diameter	Color
OFCPA-1-05-19BLK	.098137 (2.5 - 3.5mm)	Black
OFCPA-2-05-19BLK	.118157 (3.0 - 4.0mm)	Blue
OFCPA-3-05-19BLK	.161196 (4.1 - 5.0mm)	Brown
OFCPA-4-05-19BLK	.200236 (5.1 - 6.0mm)	Green
OFCPA-5-05-19BLK	.240275 (6.1 - 7.0mm)	Red
OFCPA-6-05-19BLK	.280335 (7.1 - 8.5mm)	Black Rubber
OFCPA-7-05-19BLK	.335425 (8.5 - 10.8mm)	Black Rubber
OFCPA-T-05-19BLK	.196 (5.0mm) OFBLT	Split Black
OFCPA-T-635-19BLK	.196250 (5.0 - 6.35mm) OFBLT	Split Blue

Features

- Serviceable to 185°F (85°C)
- UL recognized #E71558
- HS Series serviceable to 221°F (105°C) Material UL #E41988 UL 94-V2
- ST Series for extreme temperatures down to -40°F (-40°C); Material UL #41938
- UVB Series for outdoor applications





WIT

Wrap-It Tie

WIT SERIES

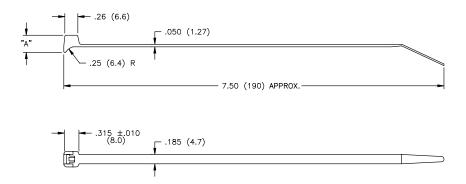
Max. Bundle Min. Loop Length "L" Width "W" Thickness "T" Material " A" " B" Std Pack Part No. Tensile (lbs.) Dia. Approx. Ref. Ref. UL-V0 RMS#: -01 -75A Mtrl: Nylon 6/6 Nylon 6/6 Color: Natural Color: White Suffix -C -M -V0 4.52 (114.8) .10 (2.5) WIT-18R* 18 .75 (19.1) .04 (1.0) .15 (3.8) .19 (4.8) WIT-30R 30 5.75 (146.1) 1.25 (31.8) .14 (3.6) .05 (1.3) .17 (4.3) .25 (6.4) 100 1,000 Standard WIT-50R 50 8.00 (203.2) 2.00 (50.8) .19 (4.8) .05 (1.3) .21 (5.3) .31 (7.9) .05 (1.3) WIT-60R 2.75 (69.9) 60 10.75 (273.1) .18 (4.6) .20 (5.1) .32 (8.1)

*Flared tip

WITCH-50R Contour Head Wrap-It-Tie

Features

 Contour head allows 360° contact around bundle, tube or hose



Material: Nylon 6/6, I	Material: Nylon 6/ 6, RMS-01 • Color: Natural												
Part No.	Maximum Bundle Dia.	Minimum Bundle Dia.	Mininum Loop Tensile	"A"	Standard Pa	a dr	UVB Stabilized Nylon 6/6, RMS 46						
Part No.	waximum bundle bia.	winimum bundle bia.	(lbs)	A	Standard Pa	ick	Color: Black						
Suffix					-С -М		-UVB						
WITCH-50R	1.875 (47.6)	.25 (6.4)	50	.340 (8.6)	100 per bag	1000 per bag	Standard						

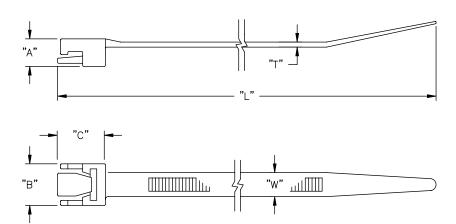
WIT-RT Release Tab Wrap-It-Tie



Patent #4236280

Features

• Easily releasable with the use of the large release tab design



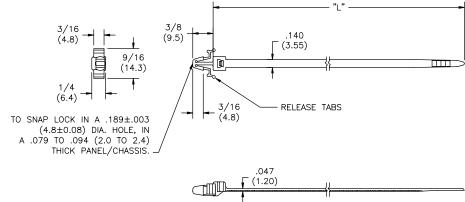
Material: Nylon 6/	Material: Nylon 6/ 6, RMS-01 • Color: Natural											
	Standard Pack: 100 (-C) 1000 (-M)											
Part No.	Min. Loop Tensile (lbs.)	Approx. Length "L"	Max. Bundle Dia.	Width "W" Ref.	Thickness "T"	"A"	"B"	"C"				
WIT-RT-0550	40	5.50 (139.7)	1.25 (31.8)	21 (5.3)	.05 (1.3)	.24 (6.1)	.36 (9.1)	.45 (11.4)				
WIT-RT-1550	70	15.50 (393.7)	4.25 (108.0)	4.25 (108.0)		.23 (5.8)	.50 (5.1)	.40 (10.2)				

WIT-30XAR Releasable Arrowhead Tie



Features

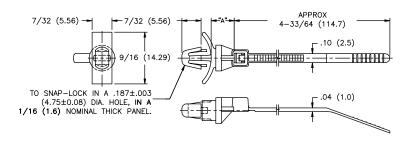
• Allows user to remove tie from board

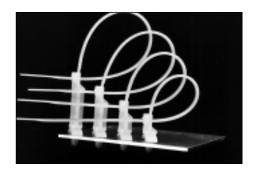


Material: Nylon 6/ 6 (RMS-01) • Color: Natural									
Dovt No.	Standard Pack: 1000 pieces								
Part No.	"L" Length Approx.	Max. Bundle Dia.	Min. Loop Tensile (lbs.)						
WIT-30RAR1-2	4.75 (120.7)	1.00 (25.4)	30						
WIT-30LAR1-2	5.75 (146.0)	1.50 (38.1)	. 30						

WIT-18RA/R1A/R2A

Self Mount Wrap-It-Tie

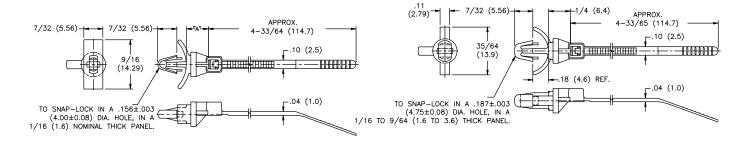




WIT-18RA

Features

- · Spaces bundle or harness above board
- Replaces two piece part application



WIT-18R1A

WIT-18R2A

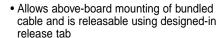
Features

Material: Nylon 6/6, I	RMS-01 · Color:	Natural									
Standard Pack: 1000 per bag											
Part No.	Min. Loop	Approx.	Max. Bundle	Width "W" Pof	idth "W" Ref. Thickness "T"	"A"	Hole Dia.	Panel Thickness Range			
	Tensile (lbs.)	Length "L"	Dia.	width w her.	IIIIOKIIESS I	_ A	поје Біа.	ranei iniukiiess nange			
WIT-18RA-4-01						.250 (6.4)	.187 ± .003 (6.75 ± 0.08)	.031 (.79)078 (2.0)			
WIT-18R1A-6-01	18	4.516 (114.7)	.750 (19.1)	.10 (2.5)	.04 (1.0)	.375 (9.5)	.156 ± .003 (4.0 ± 0.08)	.031 (.79)076 (2.0)			
WIT-18R2A-8-01						.500 (12.7)	.178 + .003 (4.75 ± 0.08)	.062 (1.6)141 (3.6)			

WIT-30RR

Self Mount Ties

RELEASE TAB "T" "B" "C" "C" "T" "W" "W" "W"

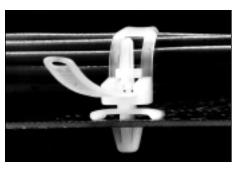




Material: Nylon 6	6, RMS-01 • C	olor: Natural										
		Standard Pack: 1000 per bag										
Part No.	Min. Loop	Approx. Length	Max. Bundle	Width "W"	Vidth "W" Thickness "T" "A"		"A" "B" Ref.	"C" Ref.	"e" p (Panel Thickness		
	Tensile (lbs.)	"L"	Dia.	Ref.	mickness i	Α	D Rei.	C Rei.	Hole Dia.	Range		
WIT-30RRA-4	30	6.312 (160.3)	1.250 (31.8)	.14 (3.6)	.05 (1.3)	.28 (7.1)	.562 (14.3)	.281 (7.1)	.187 (4.8)	.031 (0.8) -		
WIT-30RRA-16	30	7.062 (179.4)	1.230 (31.6)	. 14 (3.0)				1.00 (25.4)		.078 (2.0)		

TOAH-18-01

Tie On Arrowhead



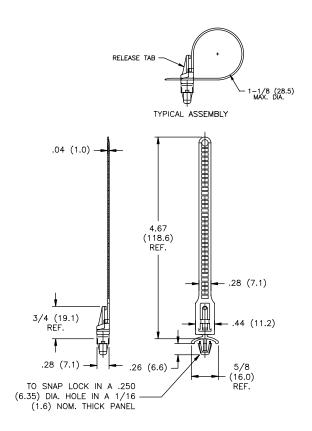
Features

 Release mechanism allows for easy removal or additions to bundles

Material: Nylon 6/ 6, RMS-01 • Color: Natural, Black available by Special Order

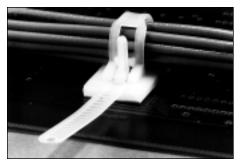
Standard Pack: 1000 per bag

Min. Loop Tensile (lbs.) 40

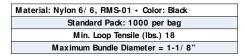


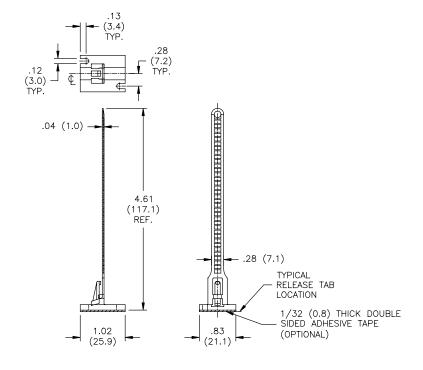
TOBS-18-01A-RT

Tie On Base, Screw



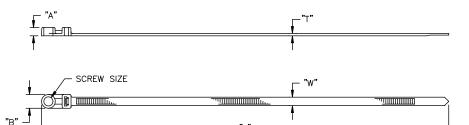
- Releasable
- Two mounting slots on base to accommodate #4 screws allow secure "screw-down" installation
- Base has slot to guide strap under the locking mechanism





WITS

Wrap-It-Tie/Screw Mount



WITS

Features

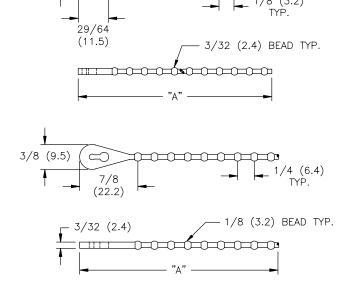
• Screw mount ties eliminate the need for a mounting device

Material: Nylon 6/6	Material: Nylon 6/ 6, RMS-01 • Color: Natural												
Part No.	Min. Loop	"L" Length	Max. Bundle	"W" Width	"T" Thickness	"A"	" B'	Screw Size	6	andord Dodro			
Fait No.	Tensilee (lbs.)	Approx.	Dia.	Ref.	Ref.	Α	_ B	Sulew Size	Standard Package				
Suffix									-c	-D	-M		
WITS-4-18MR	18	5 (127.0)	3/4 (19.1)	.10 (2.5)	.04 (1.0)	.12 (3.0)	.23 (5.8)	#4		-	1000		
WITS-8-50MS	10	6-3/4 (171.5)	1-1/2 (38.1)	.19 (4.8)	05 (4.0)	27 (0.4)	27 (0.4)	#8	100				
WITS-10-50MRL	50	8-11/16 (220.7	2 (50.8)	.19 (4.0)	.05 (1.3)	.37 (9.4)	.37 (9.4)	#10	7 100				
WITS-14-120ML	120	21-7/8 (555.6)	.30 (7.6)	.30 (7.6)	.07 (1.8)	.29 (7.4)	.50 (12.7)	1/4		500	_		

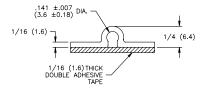
BT Beaded Tie

Features

- Excellent for temporary or releasable applications
- Beaded design keeps wires from shifting and slipping



13/64 (5.2)



THA-RT

NOTE:

To mount, use Richco Part No. THA-RT Tie Holder,

				Standard Pack: 10	00 per bag			
Part No.			Color - Red	Color - Yellow	Color - Blue	Color - Black	Color - Natural	
Fait No.	Length "A" Approx.	Figure No.	Material: Polypropylene,	Material: Polypropylene,	Material: Polypropylene,	Material: Polypropylene,	Material: Nylon 6/6,	
			RMS-10	RMS-10	RMS-10	RMS-10	RMS-01	
Suffix			-10-RD	-10-YL	-10-BL	-10-BK	-01-NT	
BT-2	2.50 (63.5)					Special	Special	
BT-4	4.00 (101.6)	1				Standard		
BT-5	5.00 (127.0)	ı						
BT-6	6.00 (152.4)		Standard	Standard	Standard		Standard	
BT-8	8.75 (222.3)	2				Special		
BT-10	10.75 (273.1)							
BT-12	12.75 (323.9)							

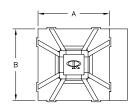
FTH/MFTH

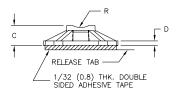
Flat Tie Holder



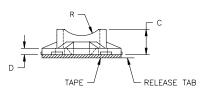
Features

• Designed for 18 pound up to 60 pound tensile strength ties





В



• UL #E71558

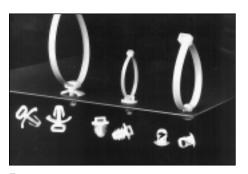
• UL #E71558

MFTH-2-01A-RT

FTH-7A-RT

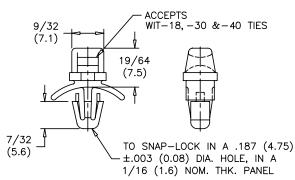
Material: Nylon 6/6	Material: Nylon 6/ 6, RMS-01 · Color: Natural												
Part No.	Can be used with Ties	" A"	"B"	"C"	"D"	"R"	Recommended Mounting Screw	Standard Pack: 100 (-C) or 1000 (-M)		Adhesive			
MFTH-2-01A-RT	18	.50 (12.7)	.50 (12.7)	.14 (3.5)	.031 (0.8)	1/8 (3.2)	N/Å	100	1000	Acrylic-Based			
FTH-7A-RT	50 & 60	.100 (25.4)	1.00 (25.4)	.28 (7.1)	.08 (2.0)	3/8 (9.5)	#8	100					
Double-backed acrylic adhesive A-RT, RMS-15													
Flame Retardant Nv	Ion. RMS-19 av	ailable by specia	l order. To order.	replace -01 wit	h -19								

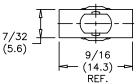
FTH-3-01 Flat Tie Holder



Features

Holds down cables for specific routing designs



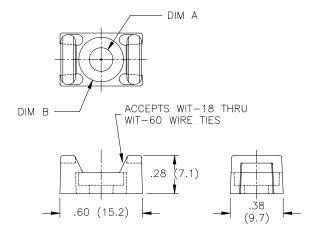


Material: Nylon 6/ 6, RMS 01 • Color: Natural Standard Pack: 100 (-C) or

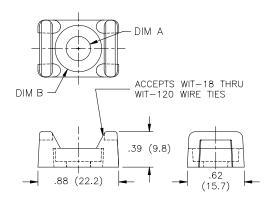
Standard Pack: 100 (-C) or 1000 (-M) per bag. Specify suffix when ordering.







FTH-13R-01



FTH-14R-01

Material: Nylon 6/ 6, RMS-01 • Color: Natural						
Part No.	Standard Pack: 100 (-C) or 1000 (-M)					
	Can be used with Ties	"A" Dia.	"B" Dia.	Recommended Mounting		
FTH-13R-01	WIT-18 to WIT-60	.17 (4.3)	.32 (8.1) C'bore	River Mount See Table 1		
FTH-14R-01	WIT-18 to WIT-120	.21 (5.2)	.38 (9.5) C'bore	River Mount See Table 2		
UV stablized material available by special order. To order add -UVB to end of part number						





Features

- Screw or rivet mounted
- Designed for 18 pound up to 120 pound tensile strength ties

TABLE 1						
MOUNTING RIVETS FOR FTH -13R-01						
Rivet No.	Hole Dia.	Panel Thickness Range				
SR-4050		.018058 (0.5 - 1.5)				
SR-4060		.058097 (1.5 - 2.5)				
SR-4070	.161 (4.1)	.097137 (2.5 - 3.5)				
SR-4080		.137176 (3.5 - 4.5)				
SR-4100		.215255 (5.5 - 6.5)				

TABLE2					
MOUNTING RIVETS FOR FTH -14R-01					
Rivet No.	Hole Dia.	Panel Thickness Range			
SR-5055		.020048 (0.5 - 1.2)			
SR-5065		.048087 (1.2 - 2.2)			
SR-5075	.201 (5.1)	.087127 (2.2 - 3.2)			
SR-5085		.127166 (3.2 - 4.2)			
SR-5095		.166205 (4.2 - 5.2)			

FTH-28RS-01 Flat Tie Holder



Features

• Tie holder to accept either a 30XX series rivet or a #4 (M3) screw

Material: Nylon 6/ 6, RMS 01 • Color: Natural Standard Pack: 1000 per bag.

