

The Low Insertion Fir Tree or LIFT™ family of cable ties, offer an ergonomically advanced solution that provides a low insertion force while maintaining high retention characteristics. The unique LIFT flute geometry is designed specifically to meet automotive wire harnessing requirements. LIFT cable ties help minimize line worker fatigue. By combining our low insertion fir tree technology with high extraction force characteristics, LIFT ties outperform alternative fir tree and arrow style fasteners.

Features:

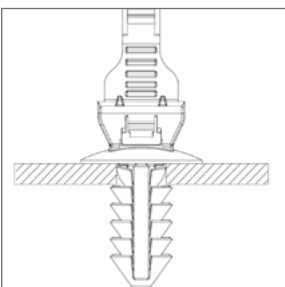
- Ergonomically friendly
- Low insertion force (<10 lbf/44 N)
- High retention force (>40 lbf/178 N)
- Fit a nominal hole range from 6.2mm to 13.0mm, including M6 and M8 threaded holes
- Available in straight 15mm offset and 25mm offset tie styles
- Available with foam gasket

Benefits:

- Effective in a range of panel thicknesses for round, oval, threaded and hex holes
- Fit small wire bundles while maintaining antislip and rotation requirements
- Reduce line worker fatigue
- Proven reliability in the field
- More durable, cleaner alternative to offset tape-on fasteners



Assembled View



Minimum Loop Tensile Strength is 50 lbf (222 N) for all LIFT ties
Maximum Insertion Force for all LIFT ties is 10 lbf (44 N)
Minimum Extraction Force for all LIFT ties is 40 lbf (178 N)

LIFT™ Offset Fir Tree Tie Specifications

Part Number	Color	Strap Length (inches/ mm)	Typical Mount Size	Offset Length	Panel Depth	Bundle Diameter		Typical (6.6mm hole / 0.7mm thick panel)	
						Min. (inches/ mm)	Max (inches/ mm)	Insertion Force (lbf/N)	Retention/ Extraction Force (lbf/N)

Round Offset Fir Tree Ties

20159-0	Black	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20159-0	Black	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20161-0	Gray	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20161-HHBN	Brown*	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20160-0	Black	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	25mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20162-0	Gray	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	25mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20162-HHBN	Brown*	5.5" / 140mm	6.6mm Hole / 6.35mm Hex	25mm	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	60 / 267
20135-0	Black	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20135-HHBN	Brown*	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20129-0	Gray	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20129-HHBN	Brown*	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	15mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20132-0	Black	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	25mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20133-0	Gray	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	25mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20133-HHBN	Brown*	7.5" / 190mm	6.6mm Hole / 6.35mm Hex	25mm	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267

Oval Offset Fir Tree Ties

20289-0	Black	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	12.5mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20289-N	Natural	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	12.5mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20289-HHBN	Brown*	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	12.5mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20293-0	Gray	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	12.5mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20293-HHBN	Brown*	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	12.5mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20291-0	Black	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	25.0mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20291-N	Natural	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	25.0mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20291-HHBN	Brown*	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	25.0mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20295-0	Gray	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	25.0mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20295-BK	Black	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	25.0mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20295-HHBN	Brown*	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	25.0mm	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200

LIFT™ Straight Fir Tree Tie Specifications

Part Number	Color	Strap Length (inches/ mm)	Typical Mount Size	Panel Depth	Bundle Diameter		Typical (6.6mm hole / 0.7mm thick panel)	
					Min. (inches/ mm)	Max (inches/ mm)	Insertion Force (lbf/N)	Retention/ Extraction Force (lbf/N)

Straight Round Fir Tree Ties

20171-0	Black	4.75" / 120mm	6.35mm Hole / M8 Threaded Hole	7.0mm	0.06" (1.6mm)	1.18" (30.0mm)	5 / 22	60 / 267
20171-N	Natural	4.75" / 120mm	6.35mm Hole / M8 Threaded Hole	7.0mm	0.06" (1.6mm)	1.18" (30.0mm)	5 / 22	60 / 267
20171-HHBN	Brown*	4.75" / 120mm	6.35mm Hole / M8 Threaded Hole	7.0mm	0.06" (1.6mm)	1.18" (30.0mm)	5 / 22	60 / 267
20154-0	Black	5.5" / 140mm	M6 Threaded Hole	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	8 / 36	65 / 289
20154-N	Natural	5.5" / 140mm	M6 Threaded Hole	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	8 / 36	65 / 289
20154-HHBN	Brown*	5.5" / 140mm	M6 Threaded Hole	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	8 / 36	65 / 289
20120-0	Black	5.5" / 140mm	6.6mm Hole / 6.35 Hex / M8 Threaded	3.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	65 / 289
20120-G	Gray	5.5" / 140mm	6.6mm Hole / 6.35 Hex / M8 Threaded	3.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	65 / 289
20120-HHBN	Brown*	5.5" / 140mm	6.6mm Hole / 6.35 Hex / M8 Threaded	3.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	65 / 289
20140-0	Black	5.5" / 140mm	6.6mm Hole / 6.35 Hex	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	7 / 31	75 / 334
20140-HHBN	Brown*	5.5" / 140mm	6.6mm Hole / 6.35 Hex	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	7 / 31	75 / 334
20098-0	Black	7.5" / 190mm	6.6mm Hole / 6.35 Hex	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	7 / 31	75 / 334
20098-N	Natural	7.5" / 190mm	6.6mm Hole / 6.35 Hex	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	7 / 31	75 / 334
20098-HHBN	Brown*	7.5" / 190mm	6.6mm Hole / 6.35 Hex	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	7 / 31	75 / 334
20105-0	Gray	7.5" / 190mm	6.6mm Hole / 6.35 Hex	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	7 / 31	75 / 334
20110-0	Black	7.5" / 190mm	11.5mm Hole	8.5mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20110-N	Natural	7.5" / 190mm	11.5mm Hole	8.5mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267
20110-HHBN	Brown*	7.5" / 190mm	11.5mm Hole	8.5mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	60 / 267

* High heat resistance, up to 150° C

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LIFT™ Offset Fir Tree Tie Specifications

Part Number	Color	Strap Length (inches/ mm)	Typical Mount Size	Panel Depth	Bundle Diameter		Typical (6.6mm hole / 0.7mm thick panel)	
					Min. (inches/ mm)	Max (inches/ mm)	Insertion Force (lbf/N)	Retention/ Extraction Force (lbf/N)

Straight Oval Fir Tree Ties

20185-N	Natural	6.30" / 160mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	45 / 200
20185-HHBN	Brown*	6.30" / 160mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	1.50" (38.1mm)	6 / 27	45 / 200
20276-0	Black	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20276-G	Gray	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20276-N	Natural	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20276-HHBN	Brown*	8.25" / 210mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	2.00" (50.8mm)	6 / 27	45 / 200
20299-0**	Black	7.5" / 190mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	45 / 200
20299-N**	Natural	7.5" / 190mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	45 / 200
20299-HHBN**	Brown*	7.5" / 190mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	45 / 200
20297-0**	Black	14.5" / 370mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.18" (4.7mm)	4.00" (101.6mm)	6 / 27	45 / 200
20297-N**	Natural	14.5" / 370mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.18" (4.7mm)	4.00" (101.6mm)	6 / 27	45 / 200
20297-HHBN**	Brown*	14.5" / 370mm	6.2-7.0mm X 12.2-13.0mm Oval	7.0mm	0.18" (4.7mm)	4.00" (101.6mm)	6 / 27	45 / 200
20318-0**	Black	7.5" / 190mm	6.2-7.0mm X 12.2-13.0mm Oval	16.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	45 / 200
20318-HHBN**	Brown*	7.5" / 190mm	6.2-7.0mm X 12.2-13.0mm Oval	16.0mm	0.06" (1.6mm)	1.75" (44.5mm)	6 / 27	45 / 200
20317-0**	Black	14.5" / 370mm	6.2-7.0mm X 12.2-13.0mm Oval	16.0mm	0.18" (4.7mm)	4.00" (101.6mm)	6 / 27	45 / 200

* High heat resistance, up to 150° C **2 piece fastener

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