

FLEXCO® XP™
Staple Belt Fastening System

The Highest Quality Staple System on the Market

The Flexco® XP™ Staple Belt Fastening System combines an enhanced applicator tool with the longest wearing staple fastener and hinge pin on the market to produce a superior belt splice for tough mining environments.



Extreme Performance
Where It's Most Important:

XP™

- A tool that can skip over misdrives without starting over
- One handle controls both advance and fastener installation
- Durable loop area provides up to 33% longer splice life

FLEXCO® XP™ Staple Fastening System

XP™ Fasteners and Hinge Pin

No matter what the belt condition, Flexco® XP™ fasteners are a good choice for both new and older, worn belts. XP staple fasteners can be used on belt thicknesses ranging from 9 to 20 mm (11/32" – 25/32") after skive with pulley diameters over 350 mm (14"). The fasteners are designed to be used with belt strengths up to 3500 kN/m and operating tensions of 2000 P.I.W. Available with steel and stainless fastener plates.



The finished splice has a smooth, low profile for compatibility with belt cleaners and other conveyor components.

Cold rolled steel provides uniform mechanical properties and increased tensile strength of up to 50%.



The larger loop area accepts a bigger pin for extending splice life and makes hinge pin insertion easier.



Built-in belt stops help align fasteners to ensure accurate installation.



Sift Stop Foam Strip creates a sealed joint to prevent sifting.

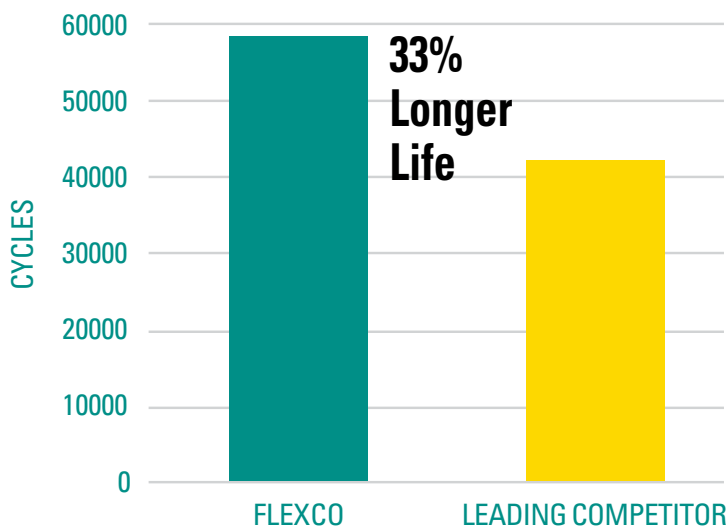
FLEXCO® XP™ Staple Fastening System

Why Staple Fasteners?

- Belt Strengths up to 3500 kN/m. Tension Rating up to 2000 P.I.W.
- Works well in harder belting such as solid woven PVC/PVG types
- Staples are preset in fastener
- Staple lengths handle a wide range of belt thicknesses.
- Can adjust compression on worn belt
- Applicator Tools: manual and powered

Benefits of XP™ vs. Competition				
Benefit	XP®	Competitor 1	Competitor 2	Competitor 3
FASTENER				
Durable Loop Area	Excellent	Better	Good	Fair
Accepts Larger Hinge Pin	Excellent	Better	Excellent	Better
Ease of Joining Belt Ends	Excellent	Better	Better	Better
Life Expectancy	Excellent	Better	Better	Good
Cleaner Compatibility	Better	Better	Fair	Better
APPLICATOR TOOL				
Reliable/Consistent	Excellent	Better	Better	Good
Can Skip Misdrives	Yes	No	No	TBD
Start Anywhere on Belt End	Yes	No	No	No
Single Action Lever	Yes	No	Yes	No
Feedback in Handle	Yes	No	No	No

35° TROUGHED BELT DYNAMIC TEST



Internal test parameters: 1000 FPM, 800 PIW, 30" Wide PVC Belt, XP5SC-L Stainless Fastener, XAC5 Armored Cable Pin, Competitor Stainless Fastener and Armored Cable Pin

Hinge Pins

A wide selection makes it easy to match pins to the needs of the application. Use the brief descriptions and the images below to identify which hinge pin is the right choice for your XP™ application.

Hinge Pin Material Selection

XAC – Bare Armored Cable:

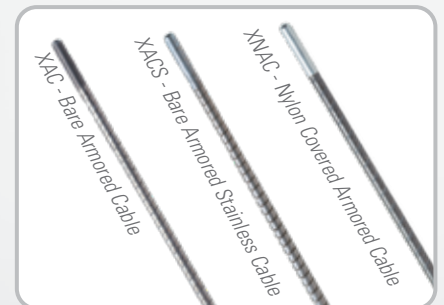
Heavy-duty, long-wearing pin popular in underground mining applications. Armor wrapping protects interior wires.

XACS – Bare Armored Stainless Steel

Cable: The same advantages as bare armored cable plus corrosion resistance.

XNAC – Nylon Covered Armored Cable:

Combines a durable armored steel wrap with a nylon covering for smooth operation and long service life. Nylon covering prevents pin migration. Not recommended in wet, abrasive applications.



Hinge Pin Retaining Collars

Prevent “pin migration.” These utilize knurled point screws and self-locking nylon patches to hold hinge pin in place.



Hinge Pin Retaining Collar

FLEXCO® XP™ Staple Fastening System

The XP™ Applicator Tools are easy to set up, operate, and transport. Unlike similar designs, the XP™ sets one fastener at a time so misdrives and tool jams are infrequent. And, should an occasional misdrive occur, the design allows the operator to skip over it and continue with the splice.

XP™ Manual Applicator Tool



Oversized handle design allows users to choose multiple hand positions based on work site conditions



The Manual applicator mounts quickly to the frame and is easily positioned for splicing.

Quick adjust handle allows users to optimize handle length for reduced effort and increased mobility



Intuitive handle lock secures handle in position when not in use

Measure belt thickness with the built-in belt thickness gauge to confirm proper fastener size and setting selection for the perfect splice. Use portable belt thickness gauge when a belt sample is not available.

FLEXCO® XP™ Staple Fastening System

XP™ Hydraulic Applicator Tool

The Hydraulic applicator has a sealed housing that is easy to maintain. It mounts quickly to the frame and is easily positioned for splicing.

One smooth motion of the lever compresses the plate, then drives and folds the staples for the same consistent staple set and finished splice profile each and every time.



Easily transported, the frame and applicator are built for durability and ease of use.



The integrated guide plate makes loading heavy belts easier.



XP-Lok™ helps prevent belt ripple so splices roll smoothly over pulleys and under cleaners. XP-Lok also helps ensure even belt tension and uniform wear across splice.



FLEXCO

FLEXCO® XP™ Staple Fastening System

Combine fasteners, hinge pin, applicator, and tool frame to complete the system. Use the selection charts below to choose the combination that is right for your operation.

Flexco® XP Staple Belt Fastener Selection Chart

Fastener Size	Belt Strength up to	Tension Rating up to	Belt Thickness Range		Recommended Min. Pulley Diameter		Max. Hinge Pin Diameter	
	kN/m	PI.W.	mm	in	mm	in	mm	in
XP5	2000	1150	9-12	11/32 - 15/32	350	14	8.1	5/16
XP5-L	2000	1150	11-14	7/16 - 9/16	350	14	8.1	5/16
XP7	3500	2000	13-15	1/2 - 19/32	500	20	10.3	13/32
XP8	3500	2000	15-18	19/32 - 23/32	500	20	11.0	7/16
XP8-L	3500	2000	17-20	21/32 - 25/32	500	20	11.0	7/16

FASTENERS

XP5 Fastener System Ordering Information

Belt Width		Ordering Number	Item Code	Ordering Number	Item Code	Weight	
mm	in	Steel Plates		Stainless Plates		kgs.	lbs.
Fastener Size XP5 with Standard Length Steel Staples							
1000	40	XP5CC-1000	37600	XP5SC-1000	37605	4.1	9.0
1050	42	XP5CC-1050	37172	XP5SC-1050	37173	4.3	9.5
1200	48	XP5CC-1200	37601	XP5SC-1200	37606	4.5	10.0
1400	56	XP5CC-1400	37602	XP5SC-1400	37607	5.0	11.0
1600	64	XP5CC-1600	37603	XP5SC-1600	37608	5.4	12.0
1800	72	XP5CC-1800	37604	XP5SC-1800	37609	5.9	13.0
Fastener Size XP5-L with Long Length Steel Staples							
1000	40	XP5CC-L-1000	37615	XP5SC-L-1000	37620	4.1	9.1
1050	42	XP5CC-L-1050	37174	XP5SC-L-1050	37175	4.4	9.6
1200	48	XP5CC-L-1200	37616	XP5SC-L-1200	37621	4.6	10.1
1400	56	XP5CC-L-1400	37617	XP5SC-L-1400	37622	5.0	11.1
1600	64	XP5CC-L-1600	37618	XP5SC-L-1600	37623	5.5	12.1
1800	72	XP5CC-L-1800	37619	XP5SC-L-1800	37624	5.9	13.1

XP7 Fastener System Ordering Information

Belt Width		Ordering Number	Item Code	Ordering Number	Item Code	Weight	
mm	in	Steel Plates		Stainless Plates		kgs.	lbs.
Fastener Size XP7 with Steel Staples							
1000	40	XP7CC-1000	37660	XP7SC-1000	37665	4.8	10.6
1050	42	XP7CC-1050	37176	XP7SC-1050	37177	5.3	11.6
1200	48	XP7CC-1200	37661	XP7SC-1200	37666	5.7	12.6
1400	56	XP7CC-1400	37662	XP7SC-1400	37667	6.7	14.8
1600	64	XP7CC-1600	37663	XP7SC-1600	37668	7.6	16.8
1800	72	XP7CC-1800	37664	XP7SC-1800	37669	8.5	18.8

XP8 Fastener System Ordering Information

Belt Width		Ordering Number	Item Code	Ordering Number	Item Code	Weight	
mm	in	Steel Plates		Stainless Plates		kgs.	lbs.
Fastener Size XP8 with Standard Length Steel Staples							
1000	40	XP8CC-1000	37884	XP8SC-1000	37889	5.1	11.2
1200	48	XP8CC-1200	37885	XP8SC-1200	37890	6.1	13.4
1400	56	XP8CC-1400	37886	XP8SC-1400	37891	7.0	15.5
1600	64	XP8CC-1600	37887	XP8SC-1600	37892	8.0	17.6
1800	72	XP8CC-1800	37888	XP8SC-1800	37893	9.0	19.8
Fastener Size XP8-L with Long Length Steel Staples							
1000	40	XP8CC-L-1000	37894	XP8SC-L-1000	37899	5.1	11.3
1200	48	XP8CC-L-1200	37895	XP8SC-L-1200	37900	6.1	13.5
1400	56	XP8CC-L-1400	37896	XP8SC-L-1400	37901	7.1	15.6
1600	64	XP8CC-L-1600	37897	XP8SC-L-1600	37902	8.1	17.8
1800	72	XP8CC-L-1800	37898	XP8SC-L-1800	37903	9.1	20.0

FLEXCO® XP™ Staple Fastening System

INSTALLATION TOOLS



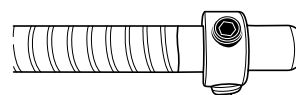
Each Flexco® XP™ Staple package contains enough fastener strips to complete a single splice. Hinge pins are ordered separately.

Tool Applicator and Frame Ordering Information					
Belt Width		Ordering Number	Item Code	Weight	
mm	in			kgs.	lbs.
Manual Applicator Tool					
Manual Applicator		XPMST	30114	23.8	52.5
Belt Thickness Gauge		XP5-7BTG	30038	0.1	0.2
Hydraulic Applicator Tool					
Hydraulic Applicator		XPHST	30113	26.0	57.0
Tool Frame					
1000	40	XPSTF-1000	30115	44.5	98.0
1200	48	XPSTF-1200	30116	48.5	107.0
1400	56	XPSTF-1400	30117	54.0	119.0
1600	64	XPSTF-1600	30118	62.6	138.0
1800	72	XPSTF-1800	30119	68.0	150.0
Sift Stop Foam Strip (creates a sealed joint to prevent sifting)					
Sift Stop Foam Strip (12.2 M/40 ft)		XPSS-40	37179	0.1	0.2
XP-LOK™ (to prevent belt wave and ripple on rubber plied belting)					
XP-LOK™ Tensioner		XPLT	30105	0.7	1.5
XP-LOK™ Belt Wire (36.5 M/120 ft)		XPLW-120	30106	0.5	1.2
Hydraulic Power Pack Ordering Information					
Contact your local Flexco distributor for regional specific power pack needs.					

HINGE PINS

XP5 Hinge Pin Ordering Information									
Belt Width		Ordering Number	Item Code	Ordering Number	Item Code	Each Weight		Package Weight	
mm	in					Each (One Pin)	Package (Ten Pins)	kgs.	lbs.
Bare Armored Steel Cable (8.1 mm dia.)									
1000	40	XAC5-1000-1	37570	XAC5-1000	37585	0.5	1.0	4.5	10.0
1050	42	XAC5-1050-1	37420	XAC5-1050	37421	0.5	1.1	4.8	10.5
1200	48	XAC5-1200-1	37571	XAC5-1200	37586	0.5	1.2	5.4	12.0
1400	56	XAC5-1400-1	37572	XAC5-1400	37587	0.6	1.4	6.4	14.0
1500	60	XAC5-1500-1	37147	XAC5-1500	37151	0.7	1.5	6.8	15.0
1600	64	XAC5-1600-1	37573	XAC5-1600	37588	0.7	1.6	7.3	16.0
1800	72	XAC5-1800-1	37574	XAC5-1800	37589	0.8	1.8	8.2	18.0
Bare Armored Stainless Cable (8.1 mm dia.)									
1000	40	XACS5-1000-1	37575	XACS5-1000	37590	0.5	1.0	4.5	10.0
1050	42	XACS5-1050-1	37424	XACS5-1050	37425	0.5	1.1	4.8	10.5
1200	48	XACS5-1200-1	37576	XACS5-1200	37591	0.5	1.2	5.4	12.0
1400	56	XACS5-1400-1	37577	XACS5-1400	37592	0.6	1.4	6.4	14.0
1500	60	XACS5-1500-1	37148	XACS5-1500	37152	0.7	1.5	6.8	15.0
1600	64	XACS5-1600-1	37578	XACS5-1600	37593	0.7	1.6	7.3	16.0
1800	72	XACS5-1800-1	37579	XACS5-1800	37594	0.8	1.8	8.2	18.0
Nylon Cover Armored Cable (8.1 mm dia.)									
1000	40	XNAC5-1000-1	37580	XNAC5-1000	37595	0.5	1.0	4.5	10.0
1050	42	XNAC5-1050-1	37428	XNAC5-1050	37429	0.5	1.1	4.8	10.5
1200	48	XNAC5-1200-1	37581	XNAC5-1200	37596	0.5	1.2	5.4	12.0
1400	56	XNAC5-1400-1	37582	XNAC5-1400	37597	0.6	1.4	6.4	14.0
1500	60	XNAC5-1500-1	37158	XNAC5-1500	37167	0.7	1.5	6.8	15.0
1600	64	XNAC5-1600-1	37583	XNAC5-1600	37598	0.7	1.6	7.3	16.0
1800	72	XNAC5-1800-1	37584	XNAC5-1800	37599	0.8	1.8	8.2	18.0

Hinge Pin Retaining Collar (2 per package)			
Ordering Number	Item Code	Weight	
		kgs.	lbs.
HPRET2	40199	0.1	0.2



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XP7/XP8 Hinge Pin Ordering Information

Belt Width		Ordering Number	Item Code	Ordering Number	Item Code	Each Weight		Package Weight	
mm	in	Each (One Pin)		Package (Ten Pins)		kgs.	lbs.	kgs.	lbs.
Bare Armored Steel Cable (9.5 mm dia.)									
1000	40	XAC7-1000-1	37864	XAC7-1000	37874	0.5	1.2	5.4	12.0
1050	42	XAC7-1050-1	37422	XAC7-1050	37423	0.5	1.2	5.6	12.4
1200	48	XAC7-1200-1	37865	XAC7-1200	37875	0.6	1.3	6.1	13.4
1400	56	XAC7-1400-1	37866	XAC7-1400	37876	0.7	1.5	7.2	15.8
1500	60	XAC7-1500-1	37149	XAC7-1500	37153	0.7	1.6	7.6	16.7
1600	64	XAC7-1600-1	37867	XAC7-1600	37877	0.8	1.7	8.0	17.6
1800	72	XAC7-1800-1	37868	XAC7-1800	37878	1.0	2.1	9.5	20.9
Bare Armored Stainless Cable (9.5 mm dia.)									
1000	40	XACS7-1000-1	37869	XACS7-1000	37879	0.5	1.2	5.4	12.0
1050	42	XACS7-1050-1	37426	XACS7-1050	37427	0.5	1.2	5.6	12.4
1200	48	XACS7-1200-1	37870	XACS7-1200	37880	0.6	1.3	6.1	13.4
1400	56	XACS7-1400-1	37871	XACS7-1400	37881	0.7	1.5	7.2	15.8
1500	60	XACS7-1500-1	37150	XACS7-1500	37154	0.7	1.6	7.6	16.7
1600	64	XACS7-1600-1	37872	XACS7-1600	37882	0.8	1.7	8.0	17.6
1800	72	XACS7-1800-1	37873	XACS7-1800	37883	1.0	2.1	9.5	20.9
Nylon Coverd Armored Cable (10.3 mm dia.)									
1000	40	XNAC7-1000-1	37560	XNAC7-1000	37565	0.5	1.2	5.4	12.0
1050	42	XNAC7-1050-1	37430	XNAC7-1050	37431	0.5	1.2	5.6	12.4
1200	48	XNAC7-1200-1	37561	XNAC7-1200	37566	0.6	1.3	6.1	13.4
1400	56	XNAC7-1400-1	37562	XNAC7-1400	37567	0.7	1.5	7.2	15.8
1500	60	XNAC7-1500-1	37156	XNAC7-1500	37159	0.7	1.6	7.6	16.7
1600	64	XNAC7-1600-1	37563	XNAC7-1600	37568	0.8	1.7	8.0	17.6
1800	72	XNAC7-1800-1	37564	XNAC7-1800	37569	1.0	2.1	9.5	20.9

U.S. patents: US9556930B2, WO2016028586A1
 China patents: No. ZL 201530049014.8, No. 2016042500842410
 Other patents pending

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