

FLEXCO® XP™ Staple Belt Fastening System

Premium Quality Staple System

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.



XP™

Extreme Performance Where It's Most Important:

- 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

Patents www.flexco.com/patents

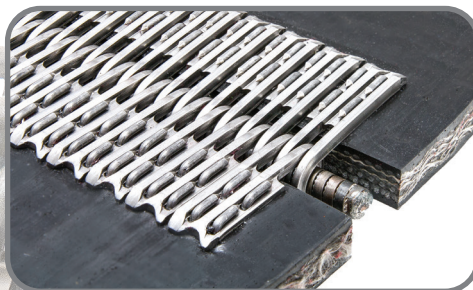
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FLEXCO

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 6 to 20 mm after skive with pulley diameters over 250 mm. The fasteners are designed to be used with belt strengths up to 3500 kN/m and operating tensions of 2000 PIW. 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.



Fastener Selection Gauge

FLEXCO® XP™ Staple Fastening System

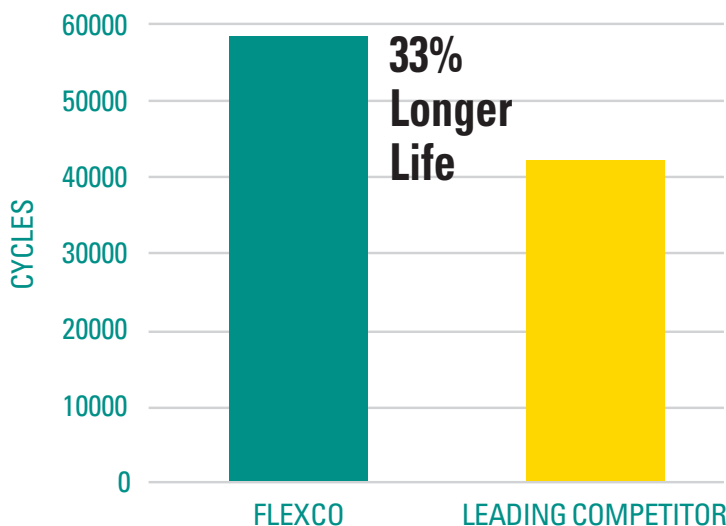
Why Staple Fasteners?

- Belt Strengths up to 3500 kN/m. Tension Rating up to 2000 PIW.
- 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	No
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: 5 m/s, 140 kN/m, 760 mm 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

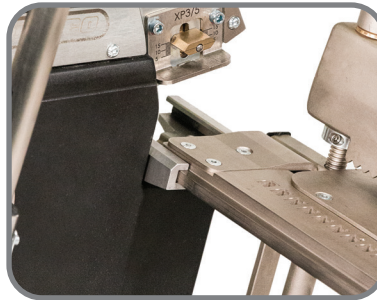


FLEXCO® XP™ Staple Fastening System

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

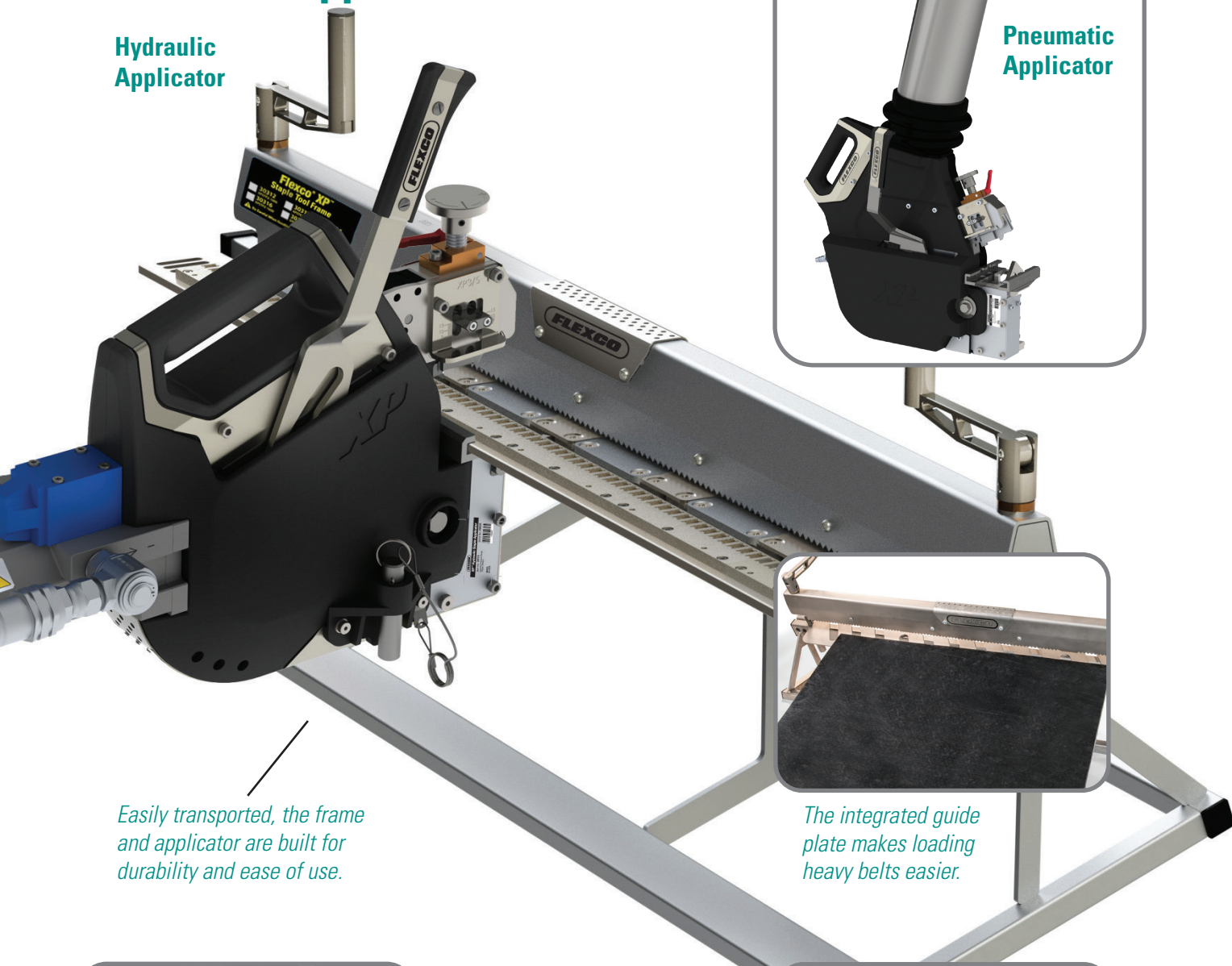


FLEXCO® XP™ Staple Fastening System

The XP™ Power Applicator Tools have a sealed housing that is easy to maintain. They mount quickly to the frame and are 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.

XP™ Power Applicator Tools

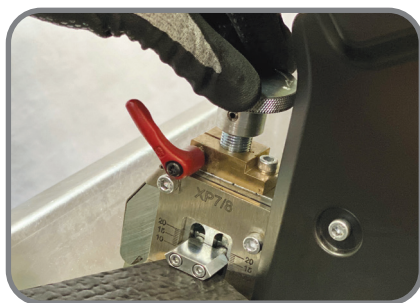
**Hydraulic
Applicator**



**Pneumatic
Applicator**

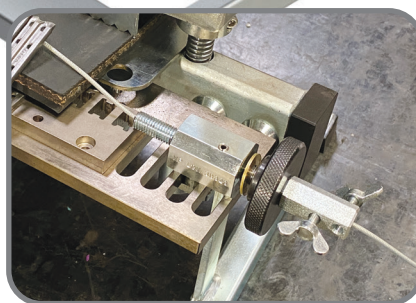
Easily transported, the frame and applicator are built for durability and ease of use.

The integrated guide plate makes loading heavy belts easier.



Use belt sample to set applicator tool.

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



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 After Skive	Recommended Min. Pulley Diameter	Max. Hinge Pin Diameter
	kN/m	PIW	mm	mm	mm
XP3	1400	800	6-9	250	5.5
XP3-L	1400	800	8-11	250	5.5
XP5	2000	1150	9-12	350	8.1
XP5-L	2000	1150	11-14	350	8.1
XP7	3500	2000	13-16	500	10.3
XP8	3500	2000	15-18	500	11.0
XP8-L	3500	2000	17-20	500	11.0

FASTENERS

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

XP3 Fastener System Ordering Information

Belt Width	Ordering Number	Item Code	Ordering Number	Item Code	Weight
mm	Steel Plates		Stainless Plates		kgs.
Fastener Size XP3 with Standard Length Steel Staples					
1000	XP3CC-1000	37720	XP3SC-1000	37732	3.5
1050	XP3CC-1050	37721	XP3SC-1050	37733	3.8
1200	XP3CC-1200	37722	XP3SC-1200	37734	4.2
1400	XP3CC-1400	37723	XP3SC-1400	37735	4.8
1600	XP3CC-1600	37724	XP3SC-1600	37736	5.5
1800	XP3CC-1800	37725	XP3SC-1800	37737	6.1
Fastener Size XP3-L with Long Length Steel Staples					
1000	XP3CC-L-1000	37726	XP3SC-L-1000	37738	3.5
1050	XP3CC-L-1050	37727	XP3SC-L-1050	37739	3.9
1200	XP3CC-L-1200	37728	XP3SC-L-1200	37740	4.2
1400	XP3CC-L-1400	37729	XP3SC-L-1400	37741	4.9
1600	XP3CC-L-1600	37730	XP3SC-L-1600	37742	5.5
1800	XP3CC-L-1800	37731	XP3SC-L-1800	37743	6.2

XP5 Fastener System Ordering Information

Belt Width	Ordering Number	Item Code	Ordering Number	Item Code	Weight
mm	Steel Plates		Stainless Plates		kgs.
Fastener Size XP5 with Standard Length Steel Staples					
1000	XP5CC-1000	37600	XP5SC-1000	37605	4.1
1050	XP5CC-1050	37172	XP5SC-1050	37173	4.3
1200	XP5CC-1200	37601	XP5SC-1200	37606	4.5
1400	XP5CC-1400	37602	XP5SC-1400	37607	5.0
1600	XP5CC-1600	37603	XP5SC-1600	37608	5.4
1800	XP5CC-1800	37604	XP5SC-1800	37609	5.9
Fastener Size XP5-L with Long Length Steel Staples					
1000	XP5CC-L-1000	37615	XP5SC-L-1000	37620	4.1
1050	XP5CC-L-1050	37174	XP5SC-L-1050	37175	4.4
1200	XP5CC-L-1200	37616	XP5SC-L-1200	37621	4.6
1400	XP5CC-L-1400	37617	XP5SC-L-1400	37622	5.0
1600	XP5CC-L-1600	37618	XP5SC-L-1600	37623	5.5
1800	XP5CC-L-1800	37619	XP5SC-L-1800	37624	5.9

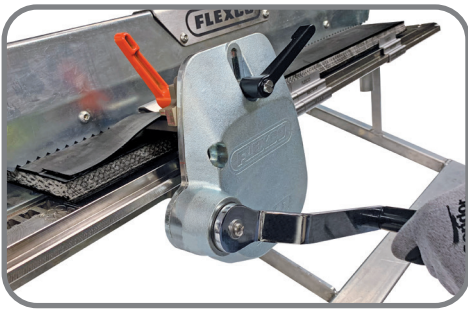
XP7 Fastener System Ordering Information

Belt Width	Ordering Number	Item Code	Ordering Number	Item Code	Weight
mm	Steel Plates		Stainless Plates		kgs.
Fastener Size XP7 with Steel Staples					
1000	XP7CC-1000	37660	XP7SC-1000	37665	4.8
1050	XP7CC-1050	37176	XP7SC-1050	37177	5.3
1200	XP7CC-1200	37661	XP7SC-1200	37666	5.7
1400	XP7CC-1400	37662	XP7SC-1400	37667	6.7
1600	XP7CC-1600	37663	XP7SC-1600	37668	7.6
1800	XP7CC-1800	37664	XP7SC-1800	37669	8.5

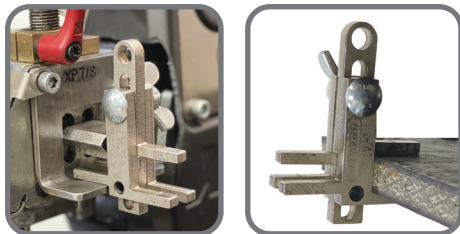
FLEXCO® XP™ Staple Fastening System

XP8 Fastener System Ordering Information

Belt Width	Ordering Number	Item Code	Ordering Number	Item Code	Weight
mm	Steel Plates		Stainless Plates		kgs.
Fastener Size XP8 with Standard Length Steel Staples					
1000	XP8CC-1000	37884	XP8SC-1000	37889	5.1
1200	XP8CC-1200	37885	XP8SC-1200	37890	6.1
1400	XP8CC-1400	37886	XP8SC-1400	37891	7.0
1600	XP8CC-1600	37887	XP8SC-1600	37892	8.0
1800	XP8CC-1800	37888	XP8SC-1800	37893	9.0
Fastener Size XP8-L with Long Length Steel Staples					
1000	XP8CC-L-1000	37894	XP8SC-L-1000	37899	5.1
1200	XP8CC-L-1200	37895	XP8SC-L-1200	37900	6.1
1400	XP8CC-L-1400	37896	XP8SC-L-1400	37901	7.1
1600	XP8CC-L-1600	37897	XP8SC-L-1600	37902	8.1
1800	XP8CC-L-1800	37898	XP8SC-L-1800	37903	9.1



Single Blade Belt Skiver skives belts up to 50 mm thick. Maximum skive per pass is 10 mm.



Belt Thickness Gauge measures belt thickness to set applicator tool.

INSTALLATION TOOLS

Tool Applicator and Frame Ordering Information

Belt Width	Ordering Number	Item Code	Weight
mm			kgs.
Applicator Tools and Accessories			
Manual Applicator	XPMST	30114	23.8
Hydraulic Applicator	XPST	30113	26.0
Pneumatic Applicator	XPST	111297	28.0
Fastener Selection Gauge	XPFSG	30038	0.1
Belt Thickness Gauge	XPBTG	30363	0.2
Tool Frame			
1000	XPSTF2-1000	30312	35.1
1200	XPSTF2-1200	30313	40.1
1400	XPSTF2-1400	30314	45.8
1600	XPSTF2-1600	30316	51.8
1800	XPSTF2-1800	30317	57.7
Belt Skiver			
Single Blade Belt Skiver	XPSK-SB	32072	6.0
XP Skiver Blade	XPSK-1UB	32074	0.1
Belt Stops XP3 & XP5 (six per kit)	XPSK-35S	32087	0.2
Belt Stops XP7 & XP8 (six per kit)	XPSK-78S	32088	0.2
Sift Stop Foam Strip (creates a sealed joint to prevent sifting)			
Sift Stop Foam Strip (12.2 M)	XPSS-40	37179	0.1
XP-LOK™ (to prevent belt wave and ripple on rubber plied belting)			
XP-LOK™ Tensioner	XPLT2	30323	0.7
XP-LOK™ Belt Wire (36.5 M)	XPLW-120	30106	0.5
Hydraulic Power Pack Ordering Information			
Contact your local Flexco distributor for regional specific power pack needs.			

HINGE PINS

XP3 Hinge Pin Ordering Information

Belt Width	Ordering Number	Item Code	Ordering Number	Item Code	Each Weight	Package Weight
mm	Each (One Pin)		Package (Ten Pins)		kgs.	kgs.
Bare Armored Steel Cable (5.5 mm dia.)						
1000	XAC3-1000-1	37462	XAC3-1000	37476	0.2	1.9
1050	XAC3-1050-1	37463	XAC3-1050	37477	0.2	2.0
1200	XAC3-1200-1	37464	XAC3-1200	37479	0.2	2.3
1400	XAC3-1400-1	37465	XAC3-1400	37481	0.3	2.7
1500	XAC3-1500-1	37466	XAC3-1500	37482	0.3	2.8
1600	XAC3-1600-1	37467	XAC3-1600	37483	0.3	3.0
1800	XAC3-1800-1	37468	XAC3-1800	37485	0.3	3.4
Bare Armored Stainless Cable (5.5 mm dia.)						
1000	XACS3-1000-1	37469	XACS3-1000	37489	0.2	1.9
1050	XACS3-1050-1	37470	XACS3-1050	37490	0.2	2.0
1200	XACS3-1200-1	37471	XACS3-1200	37491	0.2	2.3
1400	XACS3-1400-1	37472	XACS3-1400	37492	0.3	2.7
1500	XACS3-1500-1	37473	XACS3-1500	37493	0.3	2.8
1600	XACS3-1600-1	37474	XACS3-1600	37494	0.3	3.0
1800	XACS3-1800-1	37475	XACS3-1800	37495	0.3	3.4

FLEXCO® XP™ Staple Fastening System

HINGE PINS

XP5 Hinge Pin Ordering Information

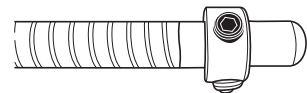
Belt Width	Ordering Number	Item Code	Ordering Number	Item Code	Each Weight	Package Weight
mm	Each (One Pin)		Package (Ten Pins)		kgs.	kgs.
Bare Armored Steel Cable (8.1 mm dia.)						
1000	XAC5-1000-1	37570	XAC5-1000	37585	0.5	4.5
1050	XAC5-1050-1	37420	XAC5-1050	37421	0.5	4.8
1200	XAC5-1200-1	37571	XAC5-1200	37586	0.5	5.4
1400	XAC5-1400-1	37572	XAC5-1400	37587	0.6	6.4
1500	XAC5-1500-1	37147	XAC5-1500	37151	0.7	6.8
1600	XAC5-1600-1	37573	XAC5-1600	37588	0.7	7.3
1800	XAC5-1800-1	37574	XAC5-1800	37589	0.8	8.2
Bare Armored Stainless Cable (8.1 mm dia.)						
1000	XACSS5-1000-1	37575	XACSS5-1000	37590	0.5	4.5
1050	XACSS5-1050-1	37424	XACSS5-1050	37425	0.5	4.8
1200	XACSS5-1200-1	37576	XACSS5-1200	37591	0.5	5.4
1400	XACSS5-1400-1	37577	XACSS5-1400	37592	0.6	6.4
1500	XACSS5-1500-1	37148	XACSS5-1500	37152	0.7	6.8
1600	XACSS5-1600-1	37578	XACSS5-1600	37593	0.7	7.3
1800	XACSS5-1800-1	37579	XACSS5-1800	37594	0.8	8.2
Nylon Cover Armored Cable (8.1 mm dia.)						
1000	XNAC5-1000-1	37580	XNAC5-1000	37595	0.5	4.5
1050	XNAC5-1050-1	37428	XNAC5-1050	37429	0.5	4.8
1200	XNAC5-1200-1	37581	XNAC5-1200	37596	0.5	5.4
1400	XNAC5-1400-1	37582	XNAC5-1400	37597	0.6	6.4
1500	XNAC5-1500-1	37158	XNAC5-1500	37167	0.7	6.8
1600	XNAC5-1600-1	37583	XNAC5-1600	37598	0.7	7.3
1800	XNAC5-1800-1	37584	XNAC5-1800	37599	0.8	8.2

XP7/XP8 Hinge Pin Ordering Information

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

Hinge Pin Retaining Collar (2 per package)

For Fastener	For Pin Diameter mm	Ordering Number	Item Code	Weight kgs.
XP3	5.5-7.1	HPRET1	40198	0.1
XP5-XP8	8.1-10.7	HPRET2	40199	0.1



Authorised Distributor:

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