

HARKEN®

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ONLINE INSTRUCTIONS

Bolt Down Fairleads



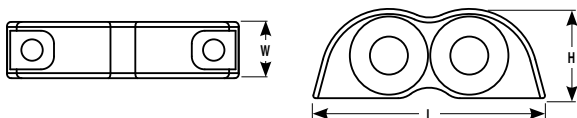
Strictly follow all instructions to avoid an accident, damage to your vessel, personal injury, or death. See www.harken.com/manuals for additional safety information.

IMPORTANT! See Inspection and Maintenance at end of manual.

Features

Available in three configurations: single, double, triple
Weight saving: built of 6061-T6 Hard Lube-anodized aluminum
Easy, one person mounting: using hexagonal head fasteners

Dimensions



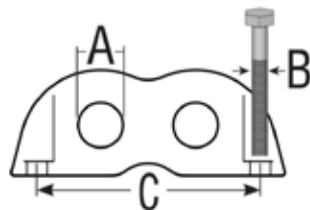
Part No.	Description	L - Length		W - Width		H - Height		Max line Ø		Maximum working load		Breaking load	
		in	mm	in	mm	in	mm	in	mm	lb	kg	lb	kg
3274	1 – 12 mm hole	1 7/8	48	11/16	18	1 1/8	28.2	3/8	10	2000	908	4000	1816
3275	2 – 12 mm holes	2 7/8	74	11/16	18	1 1/8	28.2	3/8	10	2000	908	4000	1816
3276	3 – 12 mm holes	3 7/8	99	11/16	18	1 1/8	28.2	3/8	10	2000	908	4000	1816
9300	1 – 14 mm hole	1 7/8	47	7/8	21.6	1 1/8	29.3	1/2	12	2204	1000	4409	2000
9301	2 – 14 mm holes	3	76	7/8	21.6	1 1/8	29.3	1/2	12	2204	1000	4409	2000
9302	3 – 14 mm holes	3 7/16	87	7/8	21.6	1 1/8	29.3	1/2	12	3968	1800	7936	3600
9303	4 – 14 mm holes	4 9/16	116	7/8	21.6	1 1/8	29.3	1/2	12	3968	1800	7936	3600
9304	5 – 14 mm holes	5 11/16	145	7/8	21.6	1 1/8	29.3	1/2	12	3968	1800	7936	3600
9305	6 – 14 mm holes	6 13/16	174	7/8	21.6	1 1/8	29.3	1/2	12	5952	2700	11905	5400
3277	1 – 16 mm hole	2 3/8	60	7/8	22	1 1/4	31.8	9/16	14	4000	1816	8000	3632
3278	2 – 16 mm holes	3 9/16	91	7/8	22	1 1/4	31.8	9/16	14	4000	1816	8000	3632
3279	3 – 16 mm holes	4 3/4	121	7/8	22	1 1/4	31.8	9/16	14	4000	1816	8000	3632

Fasteners (Not Included)

Note: When mounting the 12 mm fairlead, you must use metric 6 mm unless using a socket head cap screw. Also, only hex head fasteners work for one person mounting.

12 mm and 16 mm Fairleads

Part No.	A		Hex Head	Socket Head Cap Screw	Cheese Head (Phillister Head)	C	
	in	mm	B	B	B	in	mm
3274	.47	12	6 mm	1/4" 6 mm	6 mm	1.26	32
3275	.47	12				2.24	57.4
3276	.47	12				3.27	82.8
3277	.63	16	5/16" 8 mm	5/16" 8 mm	5/16" 8 mm	1.46	37
3278	.63	16				2.68	67.5
3279	.63	16				3.86	98.0



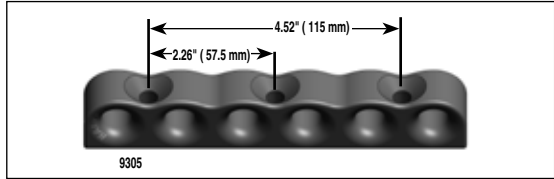
See below for 14 mm fairlead fastener information.

Fasteners (Continued)

14 mm Fairleads - Use 5/16" 8 mm Fasteners								
Part No.	Holes	Head Type					C - Mounting Hole Spacing	
							in	mm
9300	1	Pan	Socket	Button	Round	Hex*	1.18	30.0
9301	2			-	-	-	2.31	58.7
9302	3	Flat	Oval	-	-	-	1.13	28.7
9303	4			-	-	-	2.26	57.5
9304	5			-	-	-	3.395	86.2
9305	6			-	-	-	2.26 **	57.5 **

*See note below regarding holding hex head during installation.

** The 9305 fairlead uses three fasteners.
Total spacing is 4.52" (115 mm)



Hex head bolts are ideal for one person through-deck fastening. The hexagonal head is held by the sides of the inset when being tightened.

Note: In the 12 mm version, only 6 mm hex head bolts will fit. In the 14 mm version, only the one and two hole models can use hex head bolts and require wedging a flat bladed screwdriver between bolt head and side of pocket.



Choose fasteners made from A4 (316) or A2 (18-8) stainless steel. Make sure to use large washers or backing plates and lock washers or locknuts under deck. It is installer's responsibility to choose correct screws, nuts, washers, or threaded plates, taking into account materials and loads they bear. Harken assumes no responsibility for incorrect installation of fairleads or an incorrect choice of mounting fasteners.

Deck Strength

Fairleads must be installed on a flat area of deck, reinforced if necessary to bear a load equal to the breaking load of the fairlead to be used. Good sources for deck reinforcement techniques are marine epoxy and G10 suppliers. It is installer's responsibility to carry out all structural tests needed to ensure that deck can bear load. If in doubt, consult the boat manufacturer regarding the suitability of mounting location and deck strength. Harken assumes no responsibility for incorrect installation of fairlead or for an incorrect choice of mounting screws.

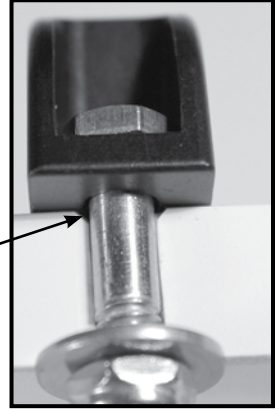


WARNING! Failure to ensure the correct deck strength type can result in the fairleads pulling off the deck suddenly and unexpectedly during high loads.

Mounting Fairleads

Carefully drill holes and slightly bevel the top of the hole to allow sealant to form a small ring at deck level. Use marine sealant, making sure sealant fills hole and beveled area. Secure fairlead using all fastener holes using large washers or backing plate and washers and locknuts.

Slight bevel allows sealant to form a ring at deck level.



Inspect

Carefully inspect fairleads and mounting hardware for any signs of loosening, cracks, or damage.



WARNING! Failure to inspect fairleads and mounting hardware can result in fairleads pulling off deck suddenly and unexpectedly during high load.

Maintenance



Clean by frequently flushing with fresh water.

IMPORTANT! Exposure to some teak cleaners and other caustic solutions can result in discoloration of part and is not covered under the Harken warranty.

Warranty

For additional safety, maintenance, and warranty information see www.harken.com/manuals or the Harken® catalog.