

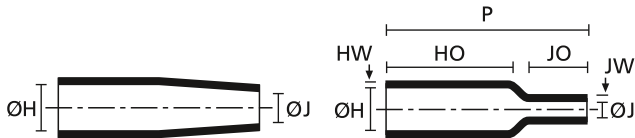


### Low Profile Shim Boots

#### Helashrink 313E Series, without adapter lip

#### Features and Benefits

- Used to build up or shim a cable diameter
- Facilitates better fit for components in cable harness



a: Expanded form (supplied)

b: Fully recovered form (after heating)



313E445-457 Series supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HO ± 10%	HW ± 25%	JW ± 25%	JO ± 10%	Article-No.
313E447-9	2.8	14.7	2.6	9.9	63.5	41.1	41.1	1.5	1.5	16.5	422-10100
313E445-9	12.7	12.7	11.1	3.3	63.5	41.1	41.1	1.5	1.5	15.7	422-10000
313E457-9	22.1	22.1	2.6	9.9	53.3	27.9	27.9	2.3	1.5	14.0	422-10300
313E455-9	22.1	22.1	11.2	3.3	53.3	27.9	27.9	2.3	1.5	15.7	422-10200

All dimensions in mm. Subject to technical changes.

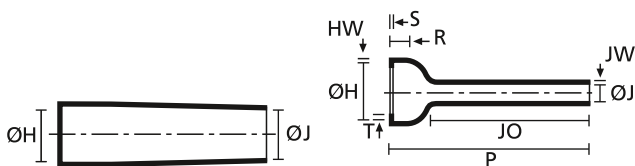
For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes Catalogue.

### Low Profile Straight Boots

#### Helashrink 313F Series, with adapter lip

#### Features and Benefits

- Connector strain relief for small cable diameters requiring high shrink ratio



a: Expanded form (supplied)

b: Fully recovered form (after heating)



313F322-396 Series supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 15%	T ± 0.8	JO ± 10%	HW ± 1.5	S ± 1.5	Article-No.
313F343-9	3.9	18.5	24.3	8.9	138.6	12.1	1.3	112.7	1.7	1.7	422-20200
313F322-9	23.8	9.9	17.2	6.6	105.9	11.6	1.3	86.3	1.5	1.5	422-20000
313F332-9	27.1	13.2	2.8	7.6	121.1	12.1	1.3	98.5	1.5	1.5	422-20100
313F353-9	35.6	22.1	28.7	1.1	159.5	12.1	1.3	13.8	1.7	1.7	422-20300
313F364-9	38.8	28.2	31.4	1.9	177.8	13.9	1.8	142.2	1.7	1.7	422-20400
313F374-9	42.2	32.2	38.3	12.7	203.2	15.2	1.8	163.0	1.7	1.7	422-20500
313F385-9	51.5	45.4	45.4	14.9	203.2	15.2	1.8	157.7	1.7	1.7	422-20600
313F396-9	62.7	45.4	53.3	16.7	228.6	16.0	1.8	153.1	1.7	1.7	422-20700

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes Catalogue.