

## RETAINING RINGS

**Material:** Spring steel

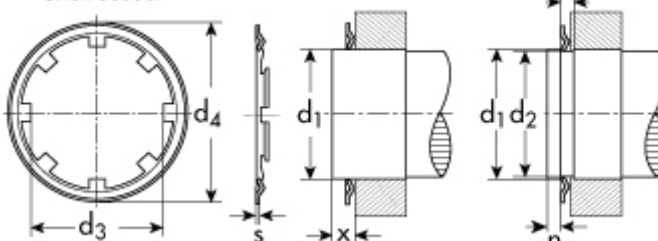
**Hardness:**  
45÷50 HRC450÷520 HV

**SURFACE FINISHES**  
**Phosphated and oiled**  
**Blackened and oiled**  
Manufacturer's choice

**On request: inox steel**

**Example of designation:**  
ring type **ZA 14**

non in tensione  
unstressed



self-locking  
type **ZA** - for  
shafts



**d<sub>1</sub>**=shaft diameter  
**d<sub>2</sub>**=groove diameter  
**d<sub>3</sub>**=inner diameter in the unstressed state  
**d<sub>4</sub>**=external diameter in the unstressed state  
**s**=thickness

| d1    | Description | Price<br>euro /100 | % Price Change |   | Package |
|-------|-------------|--------------------|----------------|---|---------|
|       |             |                    | 1              | 2 |         |
| 12.00 | ZA 12       | 8,00               | -              | - | 1000    |

| RING           |       | GROOVE              |        | SUPPLEMENTARY DATA                    |       |
|----------------|-------|---------------------|--------|---------------------------------------|-------|
| d <sub>1</sub> | 12.00 | d <sub>2</sub>      | 11.85  | n                                     | 1.500 |
| s              | 0.30  | tole d <sub>2</sub> | -0.110 | tabs                                  | 6     |
| d <sub>3</sub> | 11.70 | m                   | 0.6    | H (N) retaining force of self-locking | 350   |
| d <sub>4</sub> | 18.0  |                     |        | X                                     | 3.0   |
| weight kg/1000 | 0.255 |                     |        |                                       |       |

Technical informations are indicative and can be updated.

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