



Welded
crimp rings

Clamping and crimp rings for air spring systems of different materials with smooth and profiled cross sections

TECHNICAL SPECIFICATION OF WELDED CRIMP RINGS

Performance	<ul style="list-style-type: none"> · pressure butt welded · weld coining · extension of welding area max. 0.4 mm in width and in thickness of material
Materials	<ul style="list-style-type: none"> · C4C ref. EN 10263-2 · tensile 370 MPa ± 40MPa · Quality DC according EN 10139 and other materials on request.
Tolerances of material before forming	<ul style="list-style-type: none"> · width of material ± 0.15 mm · thickness of material ± 0.05 mm · radius at rough-rolled edge: 0.5 x thickness + 0.5
Dimension performance of crimp rings	<ul style="list-style-type: none"> · ovality (long axis – short axis) max. 1.6 mm (caliper / gage inspection) · inner circumference ± 1 mm (measurements with Novomter) · flatness: inner diameter < 100 mm ø max. 0,5 mm inner diameter > 100 mm ø max. 0,7 mm,
Marking of crimp rings	<ul style="list-style-type: none"> · data code stamp inside or outside up to 14 digits
Galvanic coatings	<ul style="list-style-type: none"> · guaranteed corrosion resistances at unworked condition · surface resistance in build-in condition to be tested at customer

ATTENTION! At a galvanic coating, a hydrogen embrittlement of material can not be excluded.

Galvanic surface treatment	Surface resistance after salt spraytest DIN 50021 SS
Zinc thick-film passivated	400 h
Zn Fe transparent (Cr VI-free)	480 h
Zn Ni transparent (Cr VI-free)	720 h

Material- and ring dimensions (mm)	Smallest ring inner diameter (mm)
8 x 3	80
10 x 2	70
10 x 2,5	80
10 x 3	80
10 x 3,5	90
12,5 x 2	80
12,5 x 3	85
15 x 2	80
15 x 3	100
15 x 4	115
15 x 5	130
20 x 5	160

other dimension on request



Profiled crimp rings

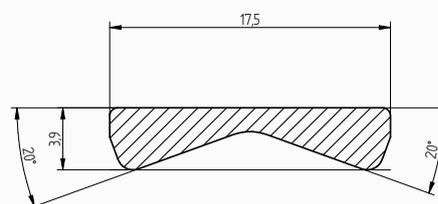
Wire dimensions (mm)

Material

Drawing

17,5 x 3,9
 (17,5 ± 0,15)
 (3,9 ± 0,10)

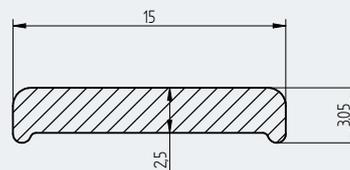
C4C / DIN EN 10263-2



smallest ring inner diameter
 120 mm

15 x 2,5 x 3,05
 (15 ± 0,15)
 (3,05 ± 0,10)

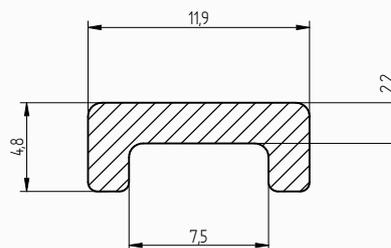
C4C / DIN EN 10263-2
 (Rm max. 315 MPa)



smallest ring inner diameter
 82 mm

11,9 x 4,8
 (11,9 ± 0,15)
 (4,80 ± 0,15)

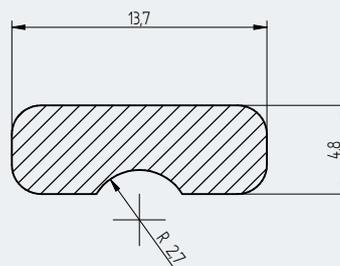
C4C / DIN EN 10263-2



smallest ring inner diameter
 125 mm

13,7 x 4,8
 (13,7 ± 0,15)
 (4,80 ± 0,15)

C4C / DIN EN 10263-2



smallest ring inner diameter
 135 mm



Profiled crimp rings

Wire dimensions (mm)	Material	Drawing
<p>10,8 x 3,4 / 3,0 (10,8 ± 0,2) (3,40 / 3,0 ± 0,1)</p> <p>smallest ring inner diameter 100 mm</p>	<p>DC 01 / annealed DIN EN 10139 (Re 150 – 255 N/mm²/ Rm 250 – 315 N/mm²)</p>	
<p>10,0 / 12,5 x 3,0 (10,0 / 12,5 ± 0,15) (3,0 ± 0,05)</p> <p>smallest ring inner diameter 90 mm</p>	<p>C4C / DIN EN 10263-2</p>	
<p>10,0 x 5,0 (10,0 ± 0,15) (5,00 ± 0,15)</p> <p>smallest ring inner diameter 110 mm</p>	<p>C4C / DIN EN 10263-2</p>	
<p>20,0 x 4,0 (20,0 ± 0,2) (4,0 ± 0,1)</p> <p>smallest ring inner diameter N.N. mm</p>	<p>DC01 / DIN EN 10139 Rm 400-500 N/mm²</p>	