BS EN 3264:2010



BSI Standards Publication

Aerospace series — Pipe coupling 8°30' in titanium alloy — Thrust wire nuts

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BS EN 3264:2010 **BRITISH STANDARD**

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English Version

Aerospace series - Pipe coupling 8°30' in titanium alloy - Thrust wire nuts

Série aérospatiale - Système de raccordement 8°30' en alliage de titane - Écrous à jonc

Luft- und Raumfahrt - Rohrverschraubung 8°30' aus Titanlegierung - Muttern mit Schubdraht

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Foreword

This document (EN 3264:2010) has been prepared by the Aerospace and Defence Industries Association of Europe - Standardization (ASD-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of ASD, prior to its presentation to CEN.

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BS EN 3264:2010 EN 3264:2010 (E)

1 Scope

This European Standard specifies the characteristics of thrust wire nuts for pipe couplings 8°30', in titanium alloy, for aerospace applications.

Nominal pressure: up to 28 000 kPa

Temperature range: – 55 °C to 135 °C

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 2424, Aerospace series — Marking of aerospace products

EN 2491, Aerospace series — Molybdenum disulphide dry lubricants — Coating methods

EN 3275, Aerospace series — Pipe coupling 8°30' up to 28 000 kPa — Dynamic beam seal — Metric series — Technical specification

EN 3311, Aerospace series — Titanium alloy TI-P64001 (Ti-6AI-4V) — Annealed — Bar for machining — D ≤ 110 mm

EN 3314, Aerospace series — Titanium alloy TI-P64001 — Solution treated and aged — Bar for machining — $D \le 75 \text{ mm}^{-1}$)

EN 4032, Aerospace series — Pipe coupling 8°30' in titanium alloy — Thrust wire

EN 9133, Aerospace series — Quality management systems — Qualification procedure for aerospace standard parts

ISO 5855-3, Aerospace — MJ threads — Part 3: Limit dimensions for fittings for fluid systems

ISO 8788, Aerospace — Nuts, metric — Tolerances of form and position

3 Required characteristics

3.1 Configuration – Dimensions – Mass

According to Figure 1 and Table 1. The values apply before lubricating.

3.2 Surface roughness

According to Figure 1.

¹⁾ Published as ASD-STAN Prestandard at the date of publication of this standard by Aerospace and Defence Industries Association of Europe-Standardization (ASD-STAN), (www.asd-stan.org).

3.3 Material

According to EN 3311 or EN 3314

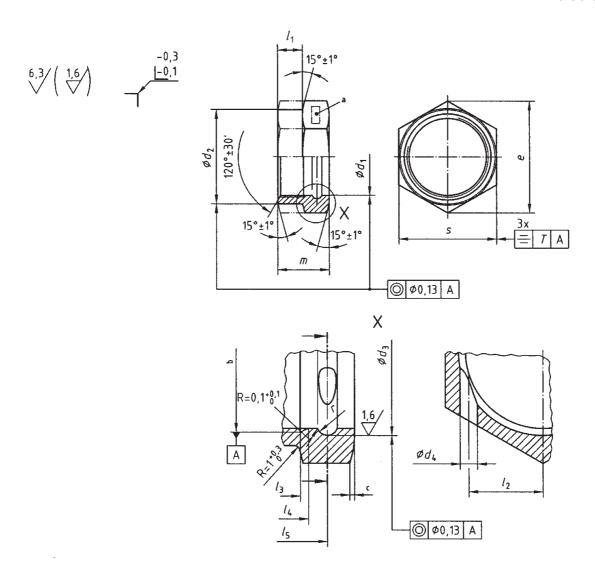
3.4 Surface treatment

Lubrication: according to EN 2491, on the bottom of the groove only.

Prior to application of the lubricant the surface shall be abrasive blasted using non-metallic grit.

Film thickness: 0,005 mm to 0,013 mm

Dimensions in millimetres



a Area for marking

Figure 1

b Thread

c 0,3 to 0,5 applicable to both faces

Table 1

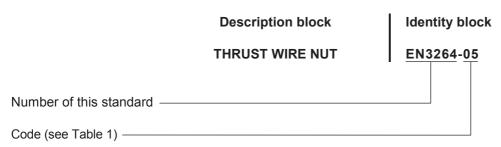
Dimensions in millimetres

| Code a | Thread ^b | d_1 | d_2 | d_3 | d₄ ^C | е | l ₁ | l_2 | l₃ d | l_4 | l_5 | m | r | S | Т ^е | Mass g/piece |
|--------|-------------------------|-------|------------|-------|-----------------|-------|----------------|-------|------|----------|-------|------|-------|-----|----------------|-----------------|
| Code | 4H5H | ± 0,1 | 0 - 0,2 | + 0,1 | + 0,1 | min. | ± 0,4 | ± 0,1 | | max. | ± 0,1 | h11 | + 0,1 | h13 | | max. |
| 05 | MJ10 × 1 | 9,1 | _ | 11,0 | 2,2 | 15,51 | _ | 4,2 | 7,2 | 8,4 | 10,0 | 13,0 | 1,3 | 14 | 0,36 | 5,52 |
| 06 | MJ12 × 1,25 | 10,8 | _ | 12,6 | | 17,77 | _ | 5,2 | 8,0 | 9,2 | 11,0 | 14,0 | | 16 | - 0,43 | 7,36 |
| 08 | MJ14 × 1,5 | 12,6 | 17,0 | 14,6 | | 20,03 | 11,0 | 6,2 | 9,5 | 11,0 | 13,0 | 16,0 | | 18 | | 7,59 |
| 10 | MJ16 × 1,5 | 14,6 | 19,0 | 16,6 | | 23,36 | | 7,2 | | | | 16,5 | | 21 | | 9,00 |
| 12 | MJ18 × 1,5 | 16,6 | 21,0 | 19,2 | | 24,49 | 10,5 | 8,2 | | | 14,0 | 17,5 | 1,6 | 22 | | 10,64 |
| 14 | MJ20 × 1,5 | 18,6 | 23,0 | 21,2 | | 26,75 | | 9,2 | |),5 12,0 | | 18,0 | | 24 | 0,52 | 11,56 |
| 16 | $\text{MJ22}\times 1,5$ | 20,6 | 26,0 | 23,2 | | 30,14 | 10,0 | 10,2 | | | 14,5 | 19,0 | | 27 | | 17,50 |
| 18 | MJ24 × 1,5 | 22,6 | 28,0 | 25,2 | 3,2 | 33,53 | | 11,2 | 10.5 | | | | | 30 | | 23,66 |
| 20 | MJ27 × 1,5 | 25,6 | 31,0 | 28,2 | | 35,72 | | 12,5 | 10,5 | | | | | 32 | | 23,23 |
| 22 | MJ30 × 1,5 | 28,6 | 35,0 | 31,2 | | 39,98 | | 13,7 | | | | | | 36 | | 27,72 |
| 25 | MJ33 × 1,5 | 31,6 | 38,0 | 34,2 | | 45,63 | | 15,5 | | | | 19,5 | | 41 | | 36,63 |
| 28 | MJ36 × 1,5 | 34,6 | 41,0 | 37,2 | | 51,28 | | 17,2 | | | | | | 46 | 0,62 | 42,00 |
| 32 | MJ39 × 1,5 | 37,6 | 45,0 | 40,2 | | 55,80 | | 18,6 | | | | 20,0 | | 50 | | 51,45 |

a Corresponds to the pipe nominal outside diameter.

4 Designation

EXAMPLE



NOTE If necessary, the code I9005 shall be placed between the description block and the identity block.

b According to ISO 5855-3.

^c Corresponding wire diameter according to EN 4032.

d Minimum usable thread length.

e According to ISO 8788.

5 Marking

According to EN 2424, style A and Figure 1.

6 Technical specification

According to EN 3275, type II.

7 Qualification

According to EN 9133.

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