

Aerospace series
Connectors for high power application
Part 004: Backshell

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1 Scope

This standard specifies the dimensions and configuration of the backshell.

2 Normative references

This Airbus Standard incorporates by dated or undated reference provisions from other publications. All normative references cited at the appropriate places in the text are listed hereafter. For dated references, subsequent amendments to or revisions of any these publications apply to this Airbus Standard only when incorporated in it by amendment of revision. For undated references, the latest issue of the publication referred to shall be applied.

| | |
|-------------|--|
| ISO965 | ISO general purpose metric screw threads - Tolerances |
| EN2424 | Aerospace series - Marking of aerospace products |
| ABS0777 | General technical specification for standard parts |
| ABS2133-002 | Aerospace series - Connectors for high power application - Part 002: Contact arrangements and polarization |
| ABS2133-003 | Aerospace series - Connectors for high power application - Part 003: Connector, plug |
| ABS2133-005 | Aerospace series - Connectors for high power application - Part 005: Contacts, power |
| SAE AS85049 | Connector accessories, electrical – General specification for |

3 Requirements

3.1 Configuration, dimensions, tolerances and mass

The configuration, dimensions, tolerances and mass shall be in accordance with figure 1 and 2 and table 2 and 3.

3.2 Material

The material and surface treatment shall be in accordance with table 2.

Table 1: Material and surface treatment

| Material | Surface treatment |
|-----------------|-------------------|
| Aluminium alloy | Nickel plated |

3.3 Operating temperature range

The operating temperature range is –55°C to +200°C

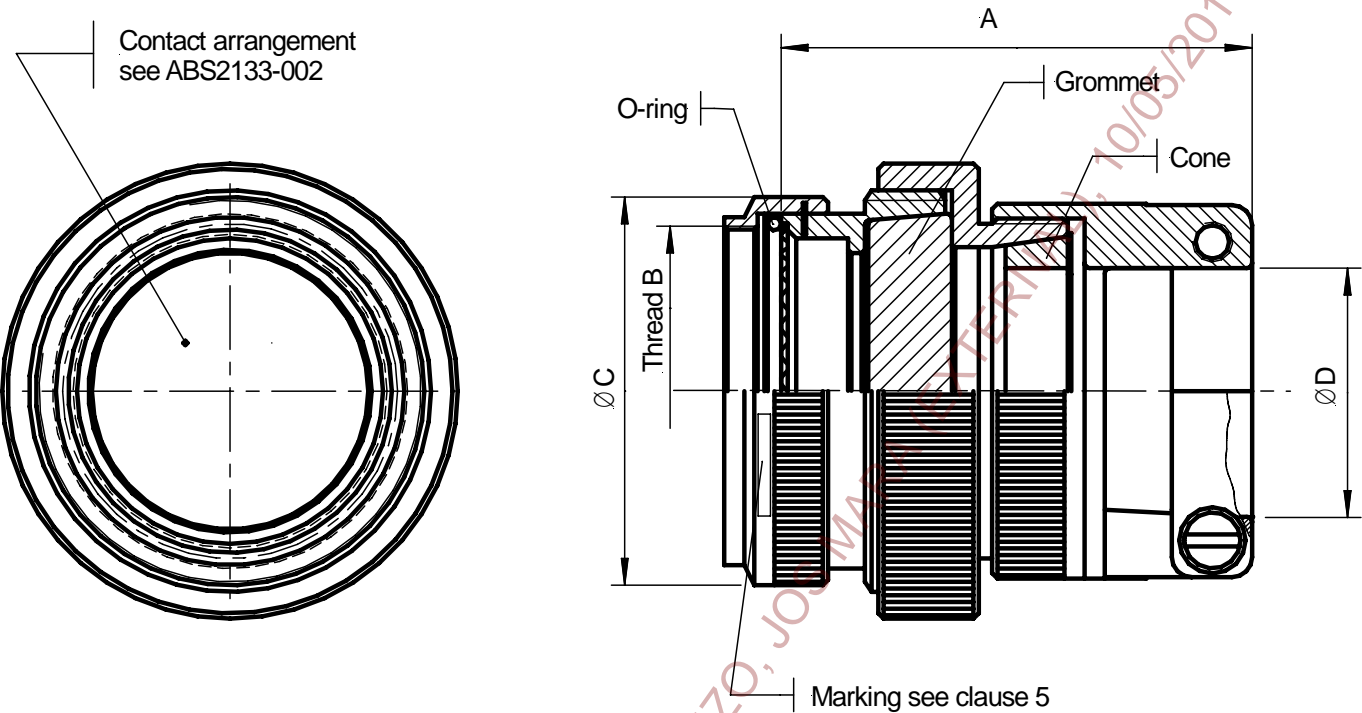


Figure 1: Configuration (type code A)

Table 2: Dimensions, tolerances and mass

| Dimensions in millimeters | | | | | |
|--|--------|------------------------------------|----------|----------|----------|
| Type code | A max. | Thread B ¹⁾ class 6H | Ø C max. | Ø D max. | Mass (g) |
| A | 52,0 | M37x1,0 | 43,5 | 29,3 | 84,0 |
| ¹⁾ Thread in accordance with ISO965 | | | | | |

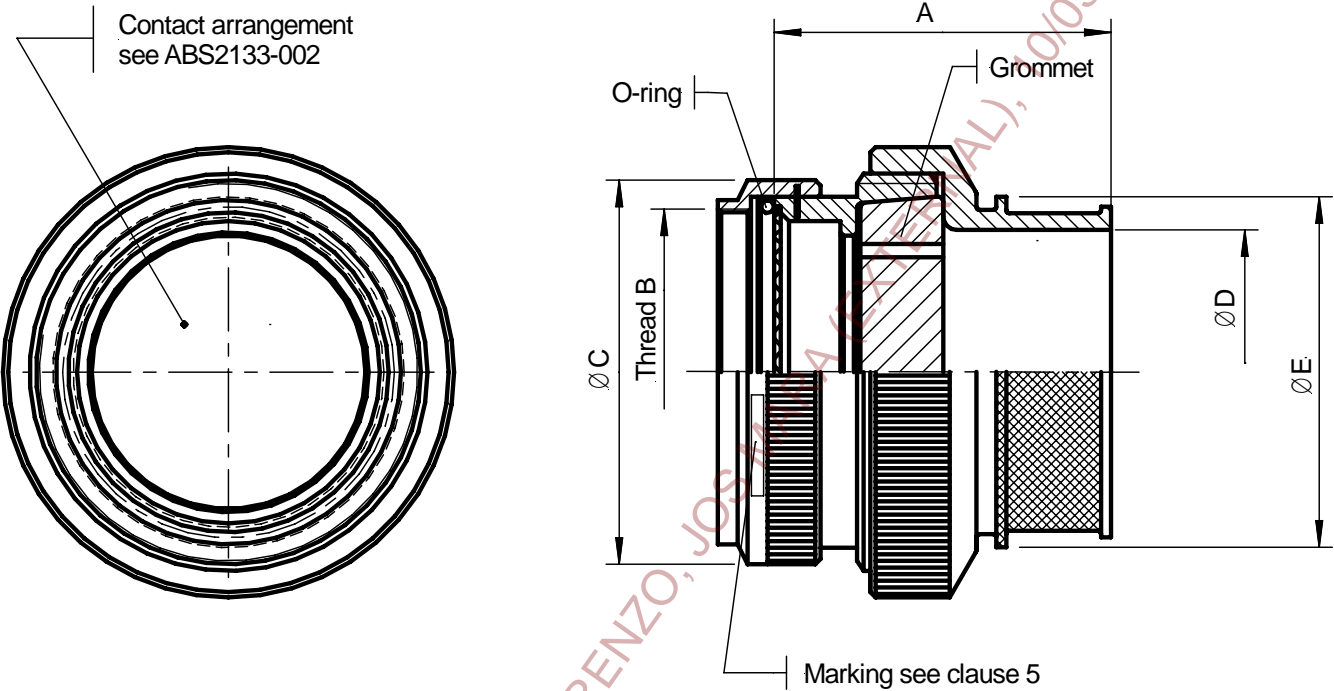


Figure 2: Configuration (type code B)

Table 3: Dimensions, tolerances and mass

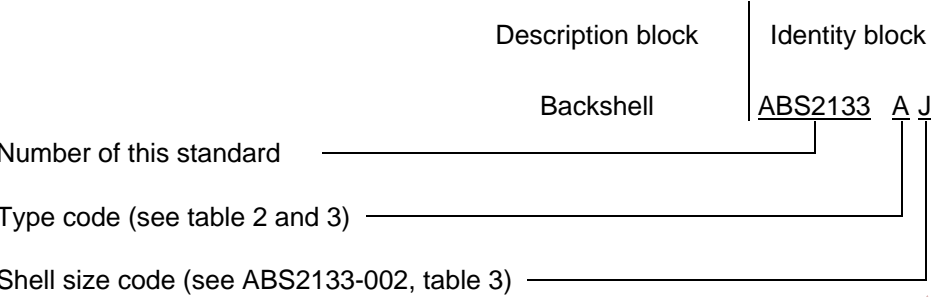
Dimensions in millimeters

| Type code | A max. | Thread B ¹⁾ class 6H | Ø C max. | Ø D max. | Ø E max. | Mass (g) |
|-----------|-----------|------------------------------------|-------------|-------------|-------------|-------------|
| B | 42,0 | M37x1,0 | 43,5 | 33,0 | 41,3 | 70,0 |

¹⁾ Thread in accordance with ISO965

4 Designation

This type of standard shall be designated according to the philosophy of the following example:



5 Marking

EN2424, style P

6 Technical specification

ABS0777
SAE AS85049

RECORD OF REVISIONS

| Issue | Clause modified | Description of modification |
|------------|-----------------|-----------------------------|
| 1 06/10 | | New standard |