

# DIN EN 1254-3:2025-04 (E)

## Copper and copper alloys - Plumbing fittings - Part 3: Compression fittings for use with plastics and multilayer pipes (includes Amendment A1:2025)

---

<b>Contents</b>		<b>Page</b>
European foreword.....		4
Introduction .....		6
1 Scope.....		7
2 Normative references.....		8
3 Terms and definitions .....		10
4 Product characteristics.....		10
4.1 Internal pressure .....		10
4.2 Tightness.....		10
4.3 Resistance to high temperature for fittings with elastomeric seals (for heating networks).....		11
4.4 Release of dangerous substances.....		11
4.5 Durability.....		12
4.6 Wall thickness at the threaded portions of fittings and/or compression nut .....		12
4.7 Dimensions of tail pipe ends for swivel fittings.....		12
4.8 Dimensions of gas union connectors .....		13
4.9 Threaded end dimensions .....		13
4.10 Other adapter ends (not defined in $\text{A1}$ EN 1254-20:2021+A1:2025 $\text{A1}$ ).....		13
4.11 Bore dimensions.....		13
4.12 Identity of elastomeric sealing material for liquid applications .....		13
4.13 Identity of elastomeric sealing material for gas applications.....		13
4.14 Pipe abutment.....		14
4.15 Alignment of the fitting ends.....		14
4.16 Shapes for tightening systems.....		14
4.17 Surface condition .....		14
4.18 Plated or coated surfaces .....		14
4.19 $\text{A1}$ Wall thickness of the fitting body $\text{A1}$ .....		14
5 Testing, assessment and sampling methods .....		14
5.1 General.....		14
5.2 Internal pressure .....		15
5.3 Tightness.....		16
5.4 Durability.....		20
5.5 Wall thickness at threaded portions of adaptor fittings.....		20
5.6 Dimensions of tail pipe ends for swivel fittings.....		21
5.7 Dimensions of gas union connectors .....		21
5.8 Threaded end dimensions .....		21
5.9 Bore dimensions.....		21
5.10 Identity of elastomeric sealing material for liquid applications .....		21
5.11 Identity of elastomeric sealing material for gas applications.....		21
5.12 Alignment of the fitting ends.....		21
5.13 $\text{A1}$ Wall thickness of the fitting body $\text{A1}$ .....		22
6 Evaluation of conformity .....		22
6.1 General.....		22
6.2 Type testing.....		22
6.3 Factory production control (FPC) .....		28

<b>7</b>	<b>Designation.....</b>	<b>31</b>
<b>8</b>	<b>Marking, labelling and packaging .....</b>	<b>31</b>
<b>8.1</b>	<b>General.....</b>	<b>31</b>
<b>8.2</b>	<b>Additional marking.....</b>	<b>31</b>
<b>8.3</b>	<b>Dezincification resistant copper zinc alloys .....</b>	<b>32</b>
	<b>Annex A (normative) Operating temperatures and design pressures .....</b>	<b>33</b>
	<b>Bibliography .....</b>	<b>35</b>