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## **Cords/Strings/Elastics Requirements of Different Countries for Toys Testing**

Standard	Australia/New Zealand/ Japan AS/NZS ISO 8124-1:2019/ ISO 8124-2018/ST 2016 Part 1	China GB6675-2:2014	Canada CCPSA SOR/2011- 17	Europe EN 71-1:2014 +A1:2018	USA ASTM F963-17
Cords and Elastics on Toys		Under 18 months         -Potential to tangle         shall have a length ≤         220 mm under         25±2N         -For the cord can         form a noose or         loop, cord length         shall <360mm         under a 25N load.         -Cord thickness shall         ≥1.5mm.         - Toys with cords         intended to be         strung across a         cradle, cot or         perambulator shall         carry a warning         stating that these         toys are to be         affixed so that the         cords are out of the         reach of children         and that the toy is         to be removed         before the child can	-	<ul> <li>5.4.2 Under 18 months</li> <li>5.4.2.1</li> <li>Potential to tangle shall either: <ul> <li>-have a length ≤ 220 mm under 25±2N, or</li> <li>-separate into parts under 25±2N. It shall be possible to join the parts after they have been separated without altering the characteristics of the joints.</li> </ul> </li> <li>5.4.2.2 <ul> <li>Two cords or chains with the potential to tangle</li> <li>shall either: <ul> <li>a) not be able to make contact at the tangle point; or</li> <li>b) have a combined length (AB+BC+CD ≤220 mm including the length of both cords or chains with the potential to tangle and the distance across the surface of the</li> <li>toy which they are apart, when each cord or chain with the potential to tangle is measured; or</li> <li>c) separate into parts under 25N.</li> </ul> </li> <li>5.4.2.3 Separated cords and chains Any cord or chain with the potential to tangle that becomes separated from the toy or remains attached to the toy under25N shall comply with the requirements of 5.4.2.1 a) and 5.4.2.2 a) or b). Other cords or chains that become separated or remain attached to the toy under 25N shall comply with 5.4.2.4. S.4.2.4 Free length of cords and chains The free length of individual cords and chains, excluding pull-along toys, shall ≤300 mm when measured independently under 25N. Two cords or chains that are attached to the toy shall be considered as two separate cords or chains for the purpose of this requirement. Where more than two cords or chains are attached, each is considered a separate cord.</li> </ul></li></ul>	Under 18 months. Cord should not over 12 in. (300 mm) measured at free state and under 5 lb. (2.25 kg) load, perimeter of loop do not allow the passage of head probe under 10 lb. (45 N) force.
	<ul> <li>Cold &gt;220mm s 200mm, toys and packaging shall carry warning indicating that the toy is not suitable for children under the age of 18 months.</li> <li>Fixed loops and nooses (for under 36 months) shall either: <ul> <li>not permit the passage of the head probe , or</li> <li>be separable under 25±2N.</li> </ul> </li> <li>Toys with cords intended to be strung across a cradle, cot or perambulator</li> </ul>	The toy shall be accompanied by instructions which indicate how the toy is to be affixed out of reach of children.		<ul> <li>5.4.3 ≥18 months but &lt; 36 months</li> <li>5.4.3.1</li> <li>Potential to tangle shall either: <ul> <li>have a length ≤300 mm under 25N, or</li> <li>separate into parts under 25N.</li> </ul> </li> <li>5.4.3.2 Two cords or chains with the potential to tangle Shall either: <ul> <li>a) not be able to make contact at the tangle point; or</li> <li>b) have a combined length (AB+BC+CD ) ≤300 mm, including the length of both cords or chains with the potential to tangle and the distance across the surface of the toy which they are apart, when each cord or chain with the potential to tangle; or</li> </ul> </li> </ul>	

shall carry a warning.	c) separate into parts
Electrical cables For ≥18months, > 300 mm under 25N shall carry a warning For <18months, shall comply with clause 4.11	5.4.3.3 Separated cords and chains Any cord or chain with the potential to tangle that becomes separated or remains attached to the toy after breakaway feature separation test shall comply with the requirements of 5.4.3.1 a) and 5.4.3.2 a) or b).
	after or data way reactive separation test shall comply with the requirements of 34.3.1 a) and 34.3.2 a) of 0).         Other cords or chains that become separated or remain attached to the toy after breakaway feature separation test shall comply with 5.4.3.4.         5.4.3.4         Free length of cords and chains         Toys with attached cords and chains with a free length > 300 mm, shall carry a warning (218 months < 36 months).
	<ul> <li>5.4.9.1 <ul> <li>Toys intended to be strung across a cradle, cot or perambulator -shall carry a warning</li> </ul> </li> <li>5.4.9.2 <ul> <li>Toys otherwise intended to be attached to a cradle, cot or perambulator -where any attached cords or chains do not comply with the requirements of 5.4.2 to 5.4.8, shall bear a warning stating that these toys are to be affixed so that the cords are out of the reach of children and that the toy is to be removed before the child can reach the cords. <ul> <li>The toy shall be accompanied by instructions which indicate how the toy is to be affixed out of reach of children.</li> <li>Toy electrical cable &gt; 300mm for 18 months or over should have long cable warning.</li> </ul> </li> </ul></li></ul>

Standard	Australia/New Zealand AS/NZS ISO 8124- 1:2019/ ISO 8124-2018	China GB6675-2:2014	Canada CCPSA SOR/2011-17	Europe EN 71-1:2014 +A1:2018	Japan ST 2016 Part 1	USA ASTM F963-17
Self Retracting Pull Cords	Under 18 months. Cord shall not retract more than 6.4mm under 0.9kg. Mono-filament (dia.< 2mm) shall not retract more than 6.4mm under 0.45 kg.	Under 18 months. Cord shall not retract more than 6.4mm under 0.9kg.	No Requirement	Under 36 months. Cord thickness shall ≥ 1.5mm, and shall not retract more than 6mm under 25N.	Under 36 months. Cords shall have an average cross- sectional dimension ≥1.5 mm under 25±2N, and shall not retract > 6.4 mm under (1±0.1kg)	Under 18 months. Cord retract shall be < 1/4 in. (6 mm) under a 2 lb. (0.9 kg) load. Mono-filament, diameter ≤ 1/16 in. (2 mm): not retract under a 1 lb. (0.45 kg) load
Pull Toys	Under 36 months. If cord length more than 220mm - shall not have beads or other attachments to form a loop.	Under 36 months. If cord length > 220mm - shall not have beads or other attachments to form a loop.	No Requirement	Cord and chain with a free end for 0-36 months shall ≤800mm under 25N	Under 36 months Shall have a free length ≤ 800 mm under 25 N.	Under 36 months. Cord length > 12 in. (300 mm) shall not have beads or other attachments to form a loop
String and Lines for Flying Devices	Line > 1.8 m - electrical resistance > $10^8 \Omega/cm$ . Warning statement Required	Line > 1.8 m - electrical resistance > 10 <sup>8</sup> Ω/cm. Warning statement Required	No Requirement	Line > 2 m - electrical resistivity > 100 MΩ/cm (cl 4.13) Warning statement required	Hand-held cords, strings and lines over 1.8 m long, attached to toy kites or other flying toys, shall have an electrical resistance of > $10^8 \Omega$ /cm. Toy kites and other flying toys shall carry a warning.	Line > 6 ft. (1.8 m) : electric resistivity > $10^8 \Omega/cm$
Cords on Toy Bags	Impermeable material with opening perimeter > 360 mm shall not have a drawstring or cord as means of closing.	Impermeable material with opening perimeter > 360 mm shall not have a drawstring or cord as means of closing.	No Requirement	Applicable for all ages children. Opening perimeter > 380mm having a drawstring as a means of closure shall either: a) Be made of material permeable to air, or b) Comply with requirements given in 4.14.2a) mask and helmets.	Impermeable material with opening perimeter > 360 mm shall not have a drawstring or cord as means of closing.	Up to 18 months Impermeable material with opening perimeter > 14 in (360 mm) shall not have a drawstring or cord as means of closing.
Break away feature	No Requirement	No Requirement	No Requirement	Releasing force less than 25N.	Releasing force less than 25N.	Releasing force < 5.0lbf. The feature shall be capable of being reattached without altering the characteristics of the attachment. The free length of the individual released cord, strap, or elastic ≤ 12 in. (300 mm).

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