

The Hong Kong Standards and Testing Centre Ltd.

10 Dai Wang Street, Tai Po Industrial Estate, N.T., Hong Kong

Tel: (852) 2666 1888 Fax: (852) 2663 9612 Email: hktcd@stc.group Website: www.stc.group

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

	Australia/New Zealand/		Canada		
	Japan	China	CCPSA	Europe	USA
Standard				EN 71-1:2014 +A1:2018	ASTM F963-17
	AS/NZS ISO 8124-1:2019/ ISO	GB6675-2:2014	SOR/2011-	EN /1-1:2014 +A1:2018	
	8124-2018/ST 2016 Part 1	Hada do acordo	17	5.4.2 Hadra 40 marship	Hada do no de la constitución
Cords and	Under 18 months Potential to tangle shall either:	<u>Under 18 months</u> -Potential to tangle	The stretchable cord of a yo-yo	5.4.2 <u>Under 18 months</u> 5.4.2.1	Under 18 months. Cord should not
Elastics on	- have a length ≤ 220 mm under	shall have a length ≤	ball or similar	Potential to tangle shall either:	over 12 in. (300
Toys	25±2N, or	220 mm under	product should	-have a length ≤ 220 mm under 25±2N, or	mm) measured at
	- separate into parts under 25±2N. It	25±2N	not be capable	-separate into parts under 25±2N. It shall be possible to join the parts after they have been separated without altering	free state and under
	shall be possible to join the parts	232211	of extending to	the characteristics of the joints.	5 lb. (2.25 kg) load,
	after they have been separated	-For the cord can	500mm (20		perimeter of loop
	without altering the characteristics	form a noose or	inches) or	5.4.2.2	do not allow the
	of the joints.	loop, cord length	more.	Two cords or chains with the potential to tangle	passage of head
		shall <360mm		shall either:	probe under 10 lb.
	Other cords	under a 25N load.		a) not be able to make contact at the tangle point; or	(45 N) force.
	 have a free length ≤300 mm under 			b) have a combined length (AB+BC+CD ≤220 mm including the length of both cords or chains with the potential to	
	25±2N	-Cord thickness shall		tangle and the distance across the surface of the	
	NAO see selle e 26 see selle	≥1.5mm.		toy which they are apart , when each cord or chain with the potential to tangle is measured; or	
	≥18 months < 36 months	Tarres Miles and		c) separate into parts under 25N.	
	Potential to tangle shall either: - have a length ≤ 300 mm under	 Toys with cords intended to be 		5.4.2.3	
	25±2N, or	strung across a		Separated cords and chains	
	- separate into parts under 25±2N. It	cradle, cot or		Any cord or chain with the potential to tangle that becomes separated from the toy or remains attached	
	shall be possible to join the parts	perambulator shall		to the toy under25N shall comply with the requirements of 5.4.2.1 a) and 5.4.2.2 a) or b).	
	after they have been separated	carry a warning			
	without altering the characteristics	stating that these		Other cords or chains that become separated or remain attached to the toy under 25N shall comply with 5.4.2.4.	
	of the joints.	toys are to be			
		affixed so that the		5.4.2.4	
	Other cords	cords are out of the		Free length of cords and chains	
	- have a free length ≤300 mm under	reach of children		The free length of individual cords and chains, excluding pull-along toys, shall ≤300 mm when measured independently	
	25±2N	and that the toy is		under 25N.	
	Other cords without a free end	to be removed		Two cords or chains that are attached to the toy shall be considered as two separate cords or chains for the purpose of	
	- Cord >220mm ≤ 200mm, toys and	before the child can reach the cords.		this requirement. Where more than two cords or chains are attached, each is considered a separate cord.	
	packaging shall carry warning	The toy shall be		5.4.3 ≥18 months but < 36 months	
	indicating that the toy is not	accompanied by		5.4.3.1	
	suitable for children under the age	instructions which		Potential to tangle shall either:	
	of 18 months.	indicate how the toy		- have a length ≤300 mm under 25N, or	
		is to be affixed out		- separate into parts under 25N.	
	Fixed loops and nooses (for under 36	of reach of children.			
	months) shall either:			5.4.3.2	
	- not permit the passage of the			Two cords or chains with the potential to tangle	
	head probe , or			Shall either:	
	- be separable under 25±2N.			a) not be able to make contact at the tangle point; or	
	Tarra with an administrative dealers for an			b) have a combined length (AB+BC+CD) ≤300 mm, including the length of both cords or chains with the potential to	
	Toys with cords intended to be strung			tangle and the distance across the surface of the toy which they are apart, when each cord or chain with the potential	
	across a cradle, cot or perambulator			to tangle; or	

shall carry a warning.

Electrical cables
For ≥18months, > 300 mm under 25N shall carry a warning
For <18months, shall comply with clause 4.11

Straps intended to be worn fully or partially around the neck
- Under 36 months, shall have a breakaway feature which breaks under 25 N

c) separate into parts

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).

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 (\ge 18 months < 36 months).

5.4.3.5

Cords and chains not suitable for children under 18 months

Cords or chains with the potential to tangle which comply with the requirements of 5.4.3.1 to 5.4.3.3 but not with 5.4.2.1 to 5.4.2.3 shall carry a warning (≥18 months < 36 months)

5.4.4

Fixed loops, tangled loops and nooses

Cords or chains that comprise fixed loops or nooses on toys, as received and tangled loops formed by cords and chains with the potential to tangle, shall either:

— have a perimeter ≤380 mm (cords and chains

with a single fixing point or with fixing points less than 94 mm apart), or a distance "d" \leq 96 mm (cords and chains fixed to a toy at points of 94 mm or more apart); or

— separate such that the loop or noose is no longer intact in breakaway feature separation test.

In addition, any cord or chain with the potential to tangle attached to the toy after the breakaway has been separated, shall continue to comply with the requirements of 5.4.2.1 a) and 5.4.2.2 a) and b) or 5.4.3.1 a) and 5.4.3.2 a) and b) as well as 5.4.3.5, as appropriate for the age of the toy.

Where the distance between fixing points of cords and chains can change during play due to the flexibility of the toy the perimeter

shall be determined according to 8.36.2.1 regardless of the at-rest distance between the fixing points.

5.4.9.1

Toys intended to be strung across a cradle, cot or perambulator $% \left(1\right) =\left(1\right) \left(1\right) \left($

-shall carry a warning

5.4.9.2

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.

The toy shall be accompanied by instructions which indicate how the toy is to be affixed out of reach of children.

Toy electrical cable > 300mm for 18 months or over should have long cable warning.

Toy electrical cable > 300mm for under 18 months should comply 5.4.

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 > $10^8~\Omega/\text{cm}$. Warning statement Required	Line > 1.8 m - electrical resistance > $10^8~\Omega/\text{cm}$. Warning statement Required	No Requirement	Line > 2 m - electrical resistivity > 100 M Ω /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 > $10^8 \Omega/\text{cm}$. 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).