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INTERNATIONAL STANDARD



441

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Textile machinery and accessories — Drop wires for mechanical and electrical warp stop motions

Matériel pour l'industrie textile — Lamelles pour casse-chaînes mécaniques et électriques

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ISO 441:1978

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Descriptors : textile machinery, drop wires, warp stop motions, dimensions, dimensional tolerances.

Price based on 5 pages

FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been set up has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 441 was developed by Technical Committee ISO/TC 72, *Textile machinery and accessories*, and was circulated to the member bodies in February 1977.

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It has been approved by the member bodies of the following countries :

- | | | |
|----------------|-----------------------|----------------|
| Belgium | Kenya | Switzerland |
| Czechoslovakia | Mexico | Turkey |
| France | Netherlands | United Kingdom |
| Germany | Poland | U.S.S.R. |
| India | Romania | Yugoslavia |
| Italy | South Africa, Rep. of | |
| Japan | Spain | |

No member body expressed disapproval of the document.

This International Standard cancels and replaces ISO Recommendation R 441-1965, of which it constitutes a technical revision.

Textile machinery and accessories – Drop wires for mechanical and electrical warp stop motions

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1 SCOPE

This International Standard specifies the principal dimensions and tolerances of drop wires for mechanical and electrical warp stop motions.

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2 FIELD OF APPLICATION

This International Standard applies to closed-end and open-end drop wires of the following types :

- type M for mechanical warp stop motions
- type E for electrical warp stop motions

3 DIMENSIONS

3.1 Drop wires type M for mechanical warp stop motions

Dimensions in millimetres

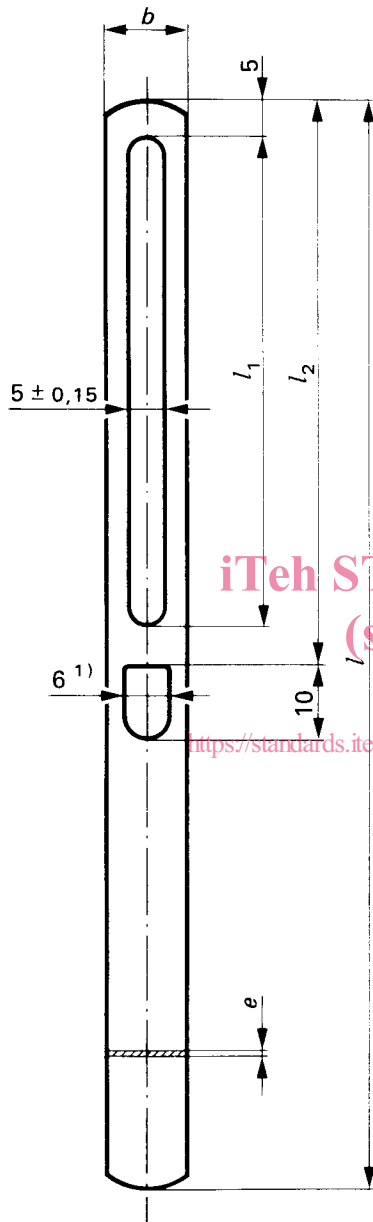


FIGURE 1 – Closed-end type MG with U-shaped eye, Type U

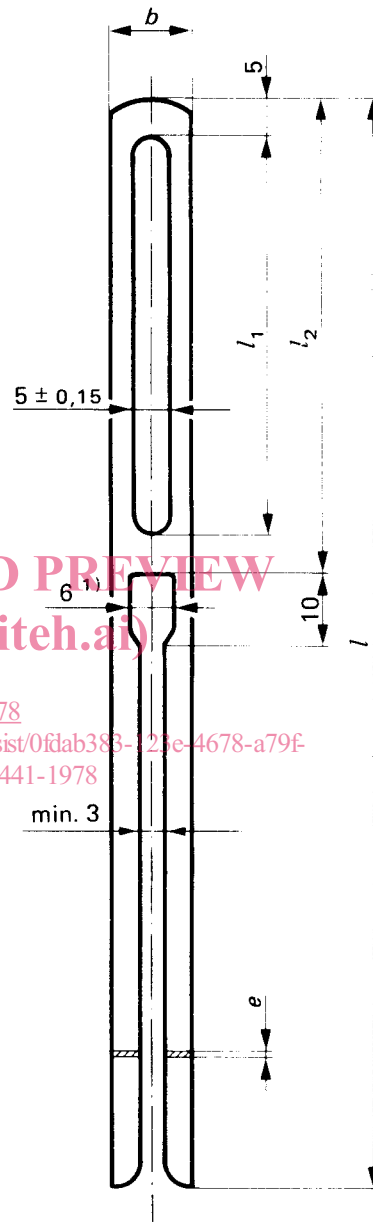


FIGURE 2 – Open-end type MO with U-shaped eye, Type U

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Example of designation for a drop wire for mechanical warp stop motion (M) with closed end (G) and U-shaped eye (U), with a length of 145 mm, a width of 11 mm and a thickness of 0,3 mm :

Drop wire MGU 145 × 11 × 0,3 ISO 441

1) Or diameter of round eye, Type R. The upper edge of the round eye, Type R, should be at the same level as the upper edge of the U-shaped eye, Type U.

TABLE 1 – Drop wires type M

Drop wire	Length <i>l</i> mm	Width <i>b</i> mm	Thickness <i>e</i> mm	Length of upper slot <i>l</i> ₁ mm	Length of upper part <i>l</i> ₂ mm	Mass ≈ g					
Type MG closed end	125	11	0,2	53	63 ± 0,3	1,7					
			0,3			2,5					
			0,4			3,3					
Type MO open end	145		0,2			65	75 ± 0,3	1,7			
			0,3					2,5			
			0,4					3,3			
Type MG closed end	145		0,2	65	75 ± 0,3			1,9			
			0,3					2,9			
			0,4					3,8			
Type MO open end	165		0,5					65	75 ± 0,3	4,8	
			0,2							1,9	
		0,3	2,9								
Type MG closed end	165	0,4	65			75 ± 0,3	3,8				
		0,5					4,8				
		0,2					2,2				
Type MO open end	180	0,3					65	75 ± 0,3	3,3		
		0,4							4,4		
		0,5							5,5		
Type MG closed end	180	0,2							65	75 ± 0,3	2,2
		0,3									3,3
		0,4									4,4
Type MO open end	180	0,2	65	75 ± 0,3	2,2						
		0,3			3,3						
		0,4			4,4						
Type MG closed end	180	0,5			65	75 ± 0,3	5,5				
		0,2					2,2				
		0,3					3,3				
Type MO open end	180	0,4	65	75 ± 0,3			4,4				
		0,5					5,5				
		0,2					2,2				

3.2 Drop wires type E for electrical warp stop motions

Dimensions in millimetres

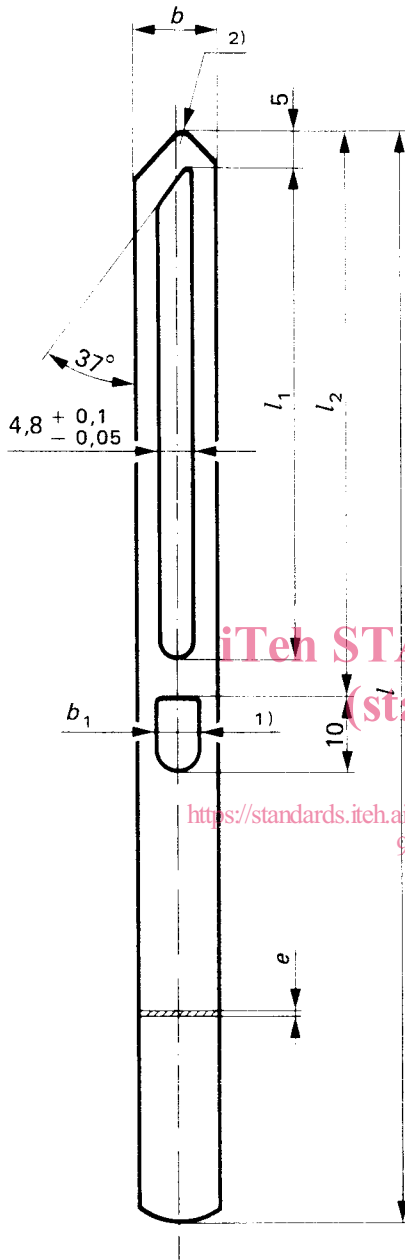


FIGURE 3 – Closed-end type EG with U-shaped eye, Type U

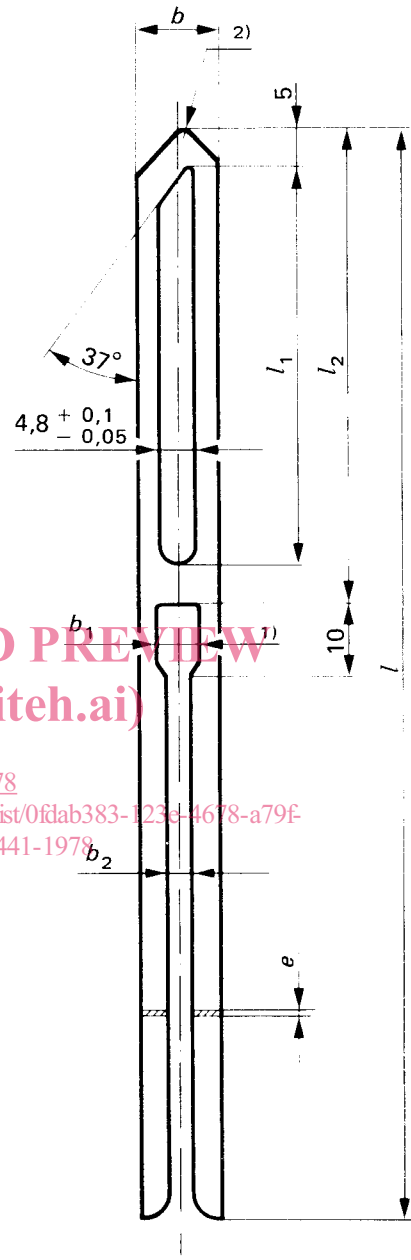


FIGURE 4 – Open-end type EO with U-shaped eye, Type U

Example of designation for a drop wire for electrical warp stop motion (E) with closed end (G) and U-shaped eye (U), with a length of 165 mm, a width of 11 mm and a thickness of 0,4 mm :

Drop wire EGU 165 × 11 × 0,4 ISO 441

1) Or diameter of round eye, Type R. The upper edge of the round eye, Type R, should be at the same level as the upper edge of the U-shaped eye, Type U.

2) The top end of the drop wire may be rounded at the option of the manufacturer.

TABLE 2 – Drop wires type E

Drop wire	Length <i>l</i> mm	Width <i>b</i> mm	Thickness <i>e</i> mm	Length of upper slot <i>l</i> ₁ mm	Length of upper part <i>l</i> ₂ mm	Width of yarn eye <i>b</i> ₁ ¹⁾ mm	Lower slot <i>b</i> ₂ min. mm	Mass ≈ g		
Type EG closed end	125	11	0,2	53	63 ± 0,3	6		1,7		
			0,3					2,5		
			0,4					3,3		
Type EO open end	145	7	0,2			63 ± 0,3	63 ± 0,3	4	2,5	0,9
		8 ²⁾	0,2							5
		11	0,2					6	3	1,7
			0,3							2,5
			0,4							3,3
			0,5							4,8
Type EG closed end	145	8 ²⁾	0,2			65	75 ± 0,3	5	2,5	1,2
			0,3							1,9
		11	0,4					6		2,9
			0,5	3,8						
			0,2	4,8						
			0,3	1,9						
Type EO open end	165	11	0,2	65	75 ± 0,3			6	3	2,9
			0,3							3,8
			0,4							4,8
			0,5							2,2
			0,2							3,3
Type EG closed end	165	11	0,3	65	75 ± 0,3			6		4,4
			0,4			5,5				
			0,5			2,2				
			0,2			3,3				
Type EO open end	180	11	0,3	65	75 ± 0,3	6	3	4,4		
			0,4					5,5		
			0,5					2,2		
			0,2					3,3		

1) Or diameter of round eye, Type R. The upper edge of the round eye, Type R, should be at the same level as the upper edge of the U-shaped eye, Type U.

2) To be avoided if possible.

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