

AMU Princigalli srl ACCESSORI MACCHINE UTENSILI

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Amuflex Flexible cable sheaths



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Amuflex

Flexible sheath Amuflex allows conducting electric, hydraulic or pneumatic tubes to moving terminals.

The function of the steel leaf for springs is to provide the tube's spires of a pre-charge of self-supporting. Furthermore it assures the tubes' integrity.

The connection between spiral tube, steel leaf for springs and the flange is mechanically realized with rivets. Plus, the two steel leaf ends are folded over the external side of the tube and then engaged into the flanges.

Unlike the system with external leaf attached, this system doesn't undergo the action of fluids and powders that first or then causes, combined with the spire's solicitation, the leaf's detachment.

In order to define Amuflex Sheath's overall dimensions it is necessary

to determine five conditions:

- section (NG)
- radius of curvature (R)
- total length
- flange's model
- flange's orientation

If required, it is possible to provide cable cases with rubber gasket between the spirals (production model SV310S). Sheath's size is defined according to the cables' number and diameter.

Usually inside every sheath is placed only one cables' layer. In case of a limited number of operations it is possible to place the cables in more than one layer. Radius of curvature is determined as each case requires, but it would have to be more or less 10 times the electric cable or flexible tube to transport.

That's why it is necessary to analyse data from the cables or tube's producer.

The higher is the strokes' number, the larger must be the radius of curvature.

The radius R recommended in the order is the medium radius of curvature of the tube.

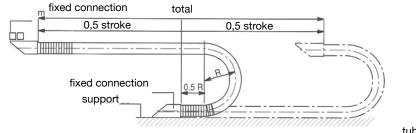
The following is the formula to define AMUFLEX cable case sheath's total length:

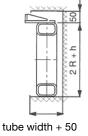
1. flange 2. spiral pipe

- spiral pipe
 steel foil by spring
 rivets
- 5. bioadhesive tissue

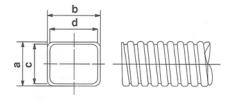
(0.5 x path) + (3.14 x R) + (2 x 0.5 x R)

Sheath's development length fits the sheath's length in its working position. The working rotation radius of the spires, while processing, corresponds to the internal radius. So the sheath, in a straight position, is shorter for a multiple of Z, as explained in the table for the determination of length quota A.





Model SV 300S



Manufacture: coiled metal tube hooked profile without seal

Material: steel quality St 3, unbound, from cold rolled strip; DIN 1624 material nr. 1,0330,

zinc-coated

Quality: flexible, tensile strength and compression

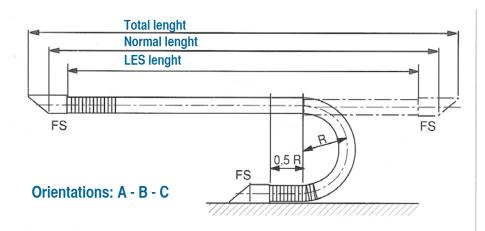
Usage: conduit for electrical wiring and conduits for fluids

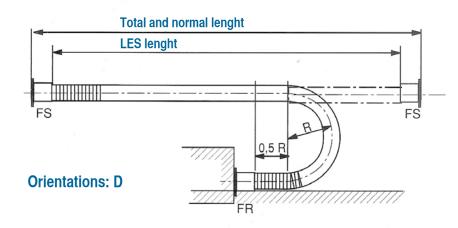
	Dimensions (mm) and features										
Mod.	outs dimer		inside dimensio	standa	ırd rays	max cantilever length	finished pipe weight +/- 10%				
NG	axb	toler. mm	c x d	toler. mm	rays	toler. mm	mt	Kg/mt			
15	30×50	+ 1	26,8 x 47,0	- 1	70	- 10	1,5 - 2,0	2,0			
25	50×50	+ 1	46,8 x 46,8	- 1	120	- 10	1,5 - 2,0	2,5			
38	45 x 85	+ 1	40,8 x 81,0	- 1	100	- 10	2	3,0			
42	65 x 65	+ 1	60,8 x 60,8	- 1	130	- 10	2	2,14			
51	60 x 85	+ 1	55,8 x 81,0	- 1	130	- 10	2	3,5			
69	60 x 115	+ 1	54,8 x 110,2	- 1	130	- 20	2	4,8			
92	80 x 115	+ 1	74,6 x 110,0	- 1	170	- 20	2,0 - 2,5	5,3			
126	90 x 140	+ 1	84,6 x 135,0	- 1	180	- 20	2,0 - 2,5	6,6			
140	80 x 175	+ 1	74,4 x 169,8	- 1	170	- 20	2,0 - 2,5	7,2			
154	110 x 140	+ 1	104,0 x 134,4	- 1	250	- 20	2,0 - 2,5	6,12			
193	110 x 175	+ 1	104,2 x 169,6	- 1	250	- 20	3	8,2			
242	110 x 220	± 1,5	104,4 x 214,4	- 1	250	- 20	3 5	7,82			

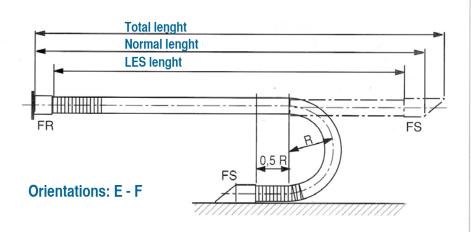


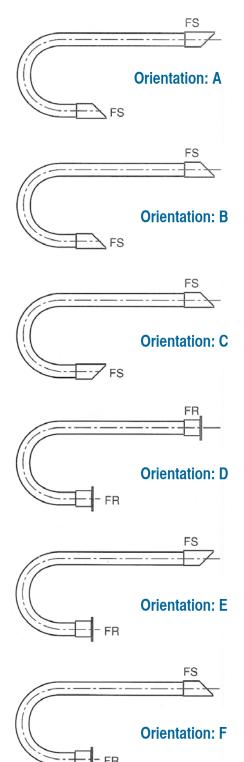


Cable carrier lenghts











Amuflex protections are provided for a stroke of maximum 8 metres.

During every session of service no more than 2 strokes per minute are recommended. The maximum length we can provide for a protection is 5 metres.

For embossed lengths over 2,5 metres it is necessary to set the right number of rollers.

Order example

Requested features:

Total stroke 4 mt. total radius of curvature 150 mm 3 cables Ø 32

Corresponding model:

AMUFLEX NG 69	-	R 150	-	LES 2.621	-	A

Model Rays Lenght Orientation and flanges model

Value A determination by result of Z x n



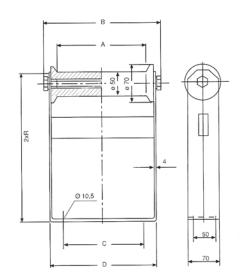
The value of A is determined by multiplying the value of Z for the turns contained in the curve development at 180°.

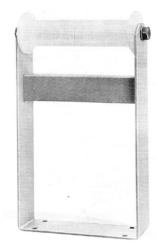
Beside table shows already calculated models values.

Mod NG	A mm
15	45
25	75
38	65
51	90
69	90
92	120
126	175
140	120
193	170

Roller support with frame

Order example PR15 x 400 / Ø 50





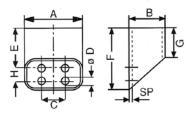
Order example PR15 x Ø 50

1 15 A 15	1
0 20	_
× ==	2 2
1 2 2	<u> </u>
/ E ®	

PR	Α	В	С	D	E	NG
6	60	126	40	100	103	25
10	100	166	80	140	143	51
15	150	216	130	190	193	92-126
20	200	266	180	240	243	140-193

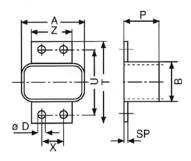
Flanges

Standard flanges



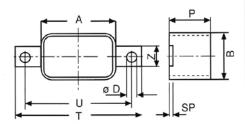
Dimensions (mm) and features												
TIPO	Standard											
NG	Α	В	С	øD	Е	F	G	Н	Sp.			
15	54	34	20	7	45,0	60	30	-	2,0			
25	54	54	20	7	45,0	60	30	-	2,0			
38	90	50	50	7	67,5	90	45	-	2,0			
42	70	70	50	7	67,5	90	45	-	2,0			
51	90	65	50	7	67,5	90	45	-	2,0			
69	120	65	80	9	70,0	120	60	40	2,0			
92	120	85	80	9	70,0	120	60	40	2,0			
126	145	95	105	9	70,0	120	60	40	2,0			
140	180	85	140	9	97,5	165	80	50	2,0			
154	145	115	140	9	97,5	165	80	50	2,0			
193	180	115	140	9	97,5	165	80	50	2,0			
242	225	115	150	9	97,5	165	80	50	2,0			

Front flanges - Model I



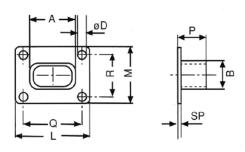
		Di	mens	ions (mm) a	nd fea	itures				
TIPO		Model I									
NG	A	В	P	T	U	Z	X	øD	Sp.		
15	54	34	30	70	55	35	18	7	2,0		
38	90	50	45	85	70	65	45	7	2,0		
69	120	65	60	110	90	80	60	9	2,0		
140	180	85	80	130	110	120	90	9	2,0		

Front flanges - Model II



Dimensions (mm) and features										
TIPO	Model II									
NG	A	В	P	T	U	Z	øD	Sp.		
15	54	- 34	30	90	75	15	7	2,0		
38	90	50	45	120	105	30	7	2,0		
69	120	65	60	160	140	35	. 9	2,0		
140	180	85	80	220	200	40	9	2,0		

Front flanges - Model III



	- 6	Di	mens	ions (i	nm) a	nd tea	itures				
TIPO		Model III									
NG	A	В	L	M	ø D	Р	Q	R	S		
15	54	34	85	65	7	30	70	50	2		
25	54	54	85	85	7	30	70	70	2		
38	90	50	120	80	7	45	105	65	2		
42	70	70	100	100	7	45	105	85	2		
51	90	65	120	95	7	45	105	80	2		
69	120	65	150	95	9	60	135	80	2		
92	120	85	150	115	9	60	135	100	2		
126	145	95	175	125	9	60	160	110	2		
140	180	85	210	115	9	80	195	100	2		
154	145	115	175	145	9	80	160	130	2		
193	180	115	210	145	9	80	195	130	2		
242	225	115	255	145	9	100	240	130	2		





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