

QUALITY AND EXPERIENCE IN MANUFACTURING OF
**HEAT SHRINK
TUBING**



 **ELEMATIC**[®]

Scopri di più su www.elematic.it



CABLE PROTECTION

► Heat shrinkable tubing

Thin wall without adhesive

EV 100	58
ET 100	60
EL 100	62
ET 301	64
Assortibox ET 100.....	66
Assortibox ET 301.....	67

Thin wall adhesive-lined

EL 301A.....	68
EL 401A.....	69

Medium wall adhesive-lined

EM 100A.....	70
--------------	----

► Neoprene sleeves 71

► PVC tubing sleeves 72

► Polyethylene spirals..... 73

► Braided sleeves 74

► Adhesive insulation tapes

Adhesive insulation tapes in PVC	76
Self-amalgamating insulation tape.....	78

HOW TO CHOOSE THE RIGHT HEAT-SHRINKABLE TUBING

TECHNICAL CHARACTERISTICS

	PRODUCT	SHRINKING RATIO	OPERATING TEMPERATURE (C°)	SHRINKING TEMPERATURE (C°)	FLAME RATING (C°)	Ø AVAILABLE (mm)	CHARACTERISTICS	COLOURS	PACKAGING	PAGE
THIN WALL	EV 100	2:1	-30°C÷105°C	>90°C	-	1,6÷50,8	General purpose economic	Black	Reel Box 1 mtr length	58
	ET 100	2:1	-55°C÷135°C	>90°C	UL 224	1,2÷101,6	General purpose	Black colours	Reel Box 1 mtr length	60
	EL 100	2:1	-55°C÷135°C	>90°C	UL 224 VW1	1,6÷101,6	Professional purpose	Black	Reel Box	62
	ET 301	3:1	-55°C÷135°C	>100°C	UL 224	1,5÷39	General purpose high shrinking ratio	Black	Reel Box 1 mtr length	64
DUAL WALL THIN ADHESIVE-LINED	EL 301A	3:1	-55°C÷110°C	>100°C	UL 224 (external wall)	3÷24	Professional purpose adhesive-lined	Black	Box 1 mtr length	68
	EL 401A	4:1	-55°C÷110°C	>100°C	UL 224 (external wall)	4÷52	Professional purpose adhesive-lined high shrinking ratio	Black	1 mtr length	69
MEDIUM WALL WITH ADHESIVE	EM 100A	3:1	-40°C÷120°C	>110°C	-	12÷180	Heavy applications adhesive-lined	Black	1 mtr bag	70

In order to choose the right heat shrinkable tubing size, it is necessary that the diameter of the shrunk tubing allows the perfect adhesion between the tubing and the cable diameter that has to be covered. This result is achieved when the tubing shrinks between 20% and 80% of its complete shrinkage capacity.
Herewith some examples:

EXAMPLE 1

Image to have a **10 mm** diameter cable to be wrapped with a heat shrinkable tubing with a shrinking ratio of **3:1**; in theory both sizes 12/4 and 24/8 would be suitable, since the required diameter of 10 mm lies within the shrinking range of both tubing sizes.

Type	Ø Nominal (mm)		Shrinkage capacity (mm)	Shrinking	
	max expanded	min recovered		min (20%)	max (80%)
12/4	12	4	8	10,4	5,6
24/8	24	8	16	20,8	11,2

the right heat shrinkable tubing is 12/4.

EXAMPLE 2

Image to have a **5 mm** diameter cable to be wrapped with a heat shrinkable tubing with a shrinking ratio of **2:1**; in theory both sizes 6,4/3,2 and 9,5/4,7 would be suitable, since the required diameter of 5 mm lies within the shrinking range of both tubing sizes.

Type	Ø Nominal (mm)		Shrinkage capacity (mm)	Shrinking	
	max expanded	min recovered		min (20%)	max (80%)
6,4/3,2	6,4	3,2	3,2	5,76	3,84
9,5/4,7	9,5	4,7	4,7	8,56	5,74

the right heat shrinkable tubing is 6,4/3,2.

COMPLETE EXAMPLE - THIN AND DUAL WALL TUBING

Type	Shrinking ratio	Ø Nominal (mm)		Shrinkage capacity (mm)	Shrinking	
		max expanded	min recovered		max (80%)	min (20%)
1,2/0,6	2:1	1,2	0,6	0,6	1,08	0,72
1,6/0,8		1,6	0,8	0,8	1,44	0,96
2,4/1,2		2,4	1,2	1,2	2,16	1,44
3,2/1,6		3,2	1,6	1,6	2,88	1,92
4,8/2,4		4,8	2,4	2,4	4,32	2,88
6,4/3,2		6,4	3,2	3,2	5,76	3,84
9,5/4,7		9,5	4,7	4,8	8,54	5,66
12,7/6,4		12,7	6,4	6,3	11,44	7,66
19,1/9,5		19,1	9,5	9,6	17,18	11,42
25,4/12,7		25,4	12,7	12,7	22,86	15,24
38,1/19,1		38,1	19,1	19,0	34,30	22,90
50,8/25,4		50,8	25,4	25,4	45,72	30,48
76,2/38,1		76,2	38,1	38,1	68,58	45,72
101,6/50,8	101,6	50,7	50,8	91,44	60,96	
1,5/0,5	3:1	1,5	0,5	1	1,30	0,70
3/1		3,0	1,0	2	2,60	1,40
4,8/1,6		4,8	1,6	3,2	4,16	2,24
6/2		6,0	2,0	4	5,20	2,80
9/3		9	3	6	7,80	4,20
12/4		12,0	4,0	8	10,40	5,60
18/6		18	6	12	15,60	8,40
24/8		24,0	8,0	16	20,80	11,20
39/13		39,0	13,0	26	33,80	18,20
4/1		4:1	4	1	3	3,40
8/2	8		2	6	6,80	3,20
12/3	12		3	9	10,20	4,80
16/4	16		4	12	13,60	6,40
24/6	24		6	18	20,40	9,60
32/8	32		8	24	27,20	12,80
52/13	52		13	39	44,20	20,80

EV 100



EV 100 is a thin wall heat shrinkable tubing in cross-linked polyolefin, economic, suitable for electrical insulation and general applications where a low shrinking temperature is required.

Available in reel, dispenser box, 1 mtr. length.

TECHNICAL DATA

Shrinking ratio:	2: 1.
Diameters available:	from Ø 1,6 mm to Ø 50,8 mm.
Colours available:	black.
Working temperature:	-30°C ÷ 105°C.
Shrinking temperature:	> 90°C.
Flammability rating:	not self-extinguishing.
Longitudinal change:	+5%; -10%.
Dielectric strength:	> 20 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

APPROVALS/CERTIFICATIONS

FMVSS 302

HALOGEN FREE

APPLICATIONS

- ▶ Insulation, protection and identification cables and joints.

BENEFITS

- ▶ Halogen-free.



LINKED PRODUCTS:

Heat guns & accessories, see pages 95





EV 100 HEAT SHRINKABLE TUBING IN REEL

Code	Ø Internal expanded	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered	Pack
	(inch)	(mm)	(mm)	(mm)	(m)
12201016	1/16"	1,6	0,8	0,43	200
12201024	3/32"	2,4	1,2	0,51	200
12201032	1/8"	3,2	1,6	0,51	200
12201048	3/16"	4,8	2,4	0,51	200
12201064	1/4"	6,4	3,2	0,65	150
12201095	3/8"	9,5	4,7	0,65	150
12201127	1/2"	12,7	6,4	0,65	100
12201190	3/4"	19,1	9,5	0,77	50
12201254	1"	25,4	12,7	0,89	50
12201381	1 1/2"	38,1	19,1	1	25
12201508	2"	50,8	25,4	1,1	25



EV 100 HEAT SHRINKABLE TUBING IN DISPENSER BOX

Code	Ø Internal expanded	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered	Pack
	(inch)	(mm)	(mm)	(mm)	(m)
12251016	1/16"	1,6	0,8	0,43	15
12251024	3/32"	2,4	1,2	0,51	15
12251032	1/8"	3,2	1,6	0,51	15
12251048	3/16"	4,8	2,4	0,51	12
12251064	1/4"	6,4	3,2	0,65	12
12251095	3/8"	9,5	4,7	0,65	10
12251127	1/2"	12,7	6,4	0,65	8
12251190	3/4"	19,1	9,5	0,77	5
12251254	1"	25,4	12,7	0,89	3



EV 100 HEAT SHRINKABLE TUBING IN 1 MTR LENGTH

Code	Ø Internal expanded	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered	Pack
	(inch)	(mm)	(mm)	(mm)	(m)
12271016	1/16"	1,6	0,8	0,43	30
12271024	3/32"	2,4	1,2	0,51	30
12271032	1/8"	3,2	1,6	0,51	30
12271048	3/16"	4,8	2,4	0,51	24
12271064	1/4"	6,4	3,2	0,65	24
12271095	3/8"	9,5	4,7	0,65	20
12271127	1/2"	12,7	6,4	0,65	16
12271190	3/4"	19,1	9,5	0,77	10
12271254	1"	25,4	12,7	0,89	6

ET 100



ET 100 is a thin wall heat shrinkable tubing in cross-linked polyolefin, self-extinguishing, flexible and strong, with chemical resistance and safety in the electrical insulation, suitable for general applications.

Available in reel, dispenser box, 1 mtr. length.

TECHNICAL DATA

Shrinking ratio:	2: 1.
Diameters available:	from Ø 1,2 mm to Ø 101,6 mm.
Colours available:	black, white, red, blue, transparent, green/yellow.
Working temperature:	-55°C ÷ 135°C.
Shrinking temperature:	> 90°C.
Flammability rating:	self-extinguishing UL 224 (except transparent).
Longitudinal change:	-5%; +5%.
Dielectric strength:	> 20 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

APPROVALS/CERTIFICATIONS

SAE-AMS-DTL-23053/5 ($\varnothing \leq 50,8$)
 Class 1 (colour) - class 2 (transparent)
 UL224 125°C - UL cert. E 228117*
 CSA C22.22 N.198.1-98 OFT*
 *except transparent



APPLICATIONS

- Insulation, protection and identification cables and joints.

BENEFITS

- Self-extinguishing.

HEAT SHRINKABLE ET 100 FLOOR DISPLAY

Code	Height (mm)	Width (mm)	Deep (mm)	Pack pcs.
8221705	1.740	415	345	1

NOTE

Floor display without assortment. In order to personalize the assortment, please contact our sales department. Total assortment: 24 boxes.

RECOMMENDED ASSORTMENT: cod. KIT 8221705

Code	Code	Code	Code	Q.ty (Pack)	Pack (m)
Black	Green/Yellow	Blue	Red		
12273016	-	-	-	1	30
12273024	-	-	-	1	30
12273032	-	-	-	1	30
12273048	12273048G/V	12273048BL	12273048R	1	24
12273064	12273064G/V	12273064BL	12273064R	1	24
12273095	12273095G/V	12273095BL	12273095R	1	20
12273127	12273127G/V	12273127BL	12273127R	1	16
12273190	12273190G/V	12273190BL	12273190R	1	10
12273254	-	-	-	1	6

NOTE

Display included in the assortment.


ET 100 HEAT SHRINKABLE TUBING IN REEL - DISPENSER BOX - 1 MTR LENGTH


Code	Pack	Code	Pack	Code	Pack	Ø Internal expanded	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered
Reel	(m)	Box	(m)	1 mtr length	(m)	(inch)	(mm)	(mm)	(mm)
12203012	200	12253012	15	12273012	30	3/64"	1,2	0,6	0,41
12203016	200	12253016	15	12273016	30	1/16"	1,6	0,8	0,43
12203024	200	12253024	15	12273024	30	3/32"	2,4	1,2	0,51
12203032	200	12253032	15	12273032	30	1/8"	3,2	1,6	0,51
12203048	200	12253048	12	12273048	24	3/16"	4,8	2,4	0,51
12203064	150	12253064	12	12273064	24	1/4"	6,4	3,2	0,64
12203095	150	12253095	10	12273095	20	3/8"	9,5	4,7	0,64
12203127	100	12253127	8	12273127	16	1/2"	12,7	6,4	0,64
12203190	50	12253190	5	12273190	10	3/4"	19,1	9,5	0,77
12203254	50	12253254	3	12273254	6	1"	25,4	12,7	0,89
12203381	25	-	-	12273381	4	1 1/2"	38,1	19,1	1,02
12203508	25	-	-	12273508	3*	2"	50,8	25,4	1,14
12203762	15	-	-	12273762	3*	3"	76,2	38,1	1,27
12203994	15	-	-	12273994	3*	4"	101,6	50,8	1,4

*Packed in plastic bag.

For other colours , add after the code: BL=white - BL=blue - R=red - TR=transparent

Size 3" e 4" available only in colour black


ET 100 YELLOW/GREEN HEAT SHRINKABLE TUBING IN REEL - DISPENSER BOX - 1 MTR LENGTH


Code	Pack	Code	Pack	Code	Pack	Ø Internal expanded	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered
Reel	(m)	Box	(m)	1 mtr length	(m)	(inch)	(mm)	(mm)	(mm)
-	-	-	-	12273012 G/V	30	3/64"	1,2	0,6	0,41
-	-	-	-	12273016 G/V	30	1/16"	1,6	0,8	0,43
12203024 G/V	200	12253024 G/V	15	12273024 G/V	30	3/32"	2,4	1,2	0,51
12203032 G/V	200	12253032 G/V	15	12273032 G/V	30	1/8"	3,2	1,6	0,51
12203048 G/V	200	12253048 G/V	12	12273048 G/V	24	3/16"	4,8	2,4	0,51
12203064 G/V	150	12253064 G/V	12	12273064 G/V	24	1/4"	6,4	3,2	0,64
12203095 G/V	150	12253095 G/V	10	12273095 G/V	20	3/8"	9,5	4,7	0,64
12203127 G/V	100	12253127 G/V	8	12273127 G/V	16	1/2"	12,7	6,4	0,64
12203190 G/V	50	12253190 G/V	5	12273190 G/V	10	3/4"	19,1	9,5	0,77
12203254 G/V	50	12253254 G/V	3	12273254 G/V	6	1"	25,4	12,7	0,89
12203381 G/V	25	-	-	12273381 G/V	4	1 1/2"	38,1	19,1	1,02
12203508 G/V	25	-	-	12273508 G/V	3*	2"	50,8	25,4	1,14

*Packed in plastic bag.

EL 100



EL 100 is a flexible, self-extinguishing thin wall heat shrinkable tubing in cross-linked polyolefin, suitable for professional applications in electrical and electronics sectors, in particular for cable insulating, marking, and identification. EL 100 ensures an excellent flame resistance.
Available in reel and box dispenser.

TECHNICAL DATA

Shrinking ratio:	2: 1.
Diameters available:	from Ø 1,6 mm to Ø 101,6 mm.
Colours available:	black.
Working temperature:	-55°C ÷ 135°C.
Shrinking temperature:	> 90°C.
Flammability rating:	self-extinguishing UL 224 - VW1.
Longitudinal change:	-5%; +5%.
Dielectric strength:	> 20 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

APPROVALS/CERTIFICATIONS

SAE-AMS-DTL-23053/5 class 3 (Ø ≤ 50,8)
UL 224 125°C VW1- UL cert. E 228117
CSA C22.22 N.198.1-98 OFT.



APPLICATIONS

- ▶ Insulation, protection and identification cables and joints.

BENEFITS

- ▶ High self-extinguishing.



LINKED PRODUCTS:

Heat guns & accessories, see pages 95





EL 100 HEAT SHRINKABLE TUBING IN REEL

Code	Ø Internal expanded (inch)	Ø Internal expanded (mm)	Ø Internal recovered (mm)	Wall thickness recovered (mm)	Pack (m)
12204016	1/16"	1,6	0,8	0,43	200
12204024	3/32"	2,4	1,2	0,51	200
12204032	1/8"	3,2	1,6	0,51	200
12204048	3/16"	4,8	2,4	0,51	200
12204064	1/4"	6,4	3,2	0,64	150
12204095	3/8"	9,5	4,7	0,64	150
12204127	1/2"	12,7	6,4	0,64	100
12204190	3/4"	19,1	9,5	0,77	50
12204254	1"	25,4	12,7	0,89	50
12204381	1 1/2"	38,1	19,1	1,02	25
12204508	2"	50,8	25,4	1,14	25
12204762	3"	76,2	38,1	1,27	15
12204994	4"	101,6	50,8	1,4	15



EL 100 HEAT SHRINKABLE TUBING IN DISPENSER BOX

Code	Ø Internal expanded (inch)	Ø Internal expanded (mm)	Ø Internal recovered (mm)	Wall thickness recovered (mm)	Pack (m)
12254016	1/16"	1,6	0,8	0,43	15
12254024	3/32"	2,4	1,2	0,51	15
12254032	1/8"	3,2	1,6	0,51	15
12254048	3/16"	4,8	2,4	0,51	12
12254064	1/4"	6,4	3,2	0,64	12
12254095	3/8"	9,5	4,7	0,64	10
12254127	1/2"	12,7	6,4	0,64	8
12254190	3/4"	19,1	9,5	0,77	5
12254254	1"	25,4	12,7	0,89	3

ET 301



ET 301 is a thin wall heat shrinkable tubing in cross-linked polyolefin, self-extinguishing, flexible and strong, with chemical resistance and good capacity of electrical insulation, suitable for general applications.

Thanks to its high shrinking ratio, more applications can be covered with the same diameter. Its high expansion ratio is designed for use when wide ranging substrate diameters need to be covered.

Available in reel, dispenser box, 1 mtr. length.

TECHNICAL DATA

Shrinking ratio:	3: 1.
Diameters available:	from Ø 1,5 mm to Ø 39 mm.
Colours available:	black.
Working temperature:	-55°C ÷ 135°C.
Shrinking temperature:	> 90°C.
Flammability rating:	self-extinguishing UL 224.
Longitudinal change:	+1%; -10%.
Dielectric strength:	> 20 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

APPROVALS/CERTIFICATIONS

SAE-AMS-DTL-23053/5
class 1
UL224 125°C - UL cert. E 228117
CSA C22.22 N.198.1-98 OFT



APPLICATIONS

- ▶ Insulation, protection and identification cables and joints.

BENEFITS

- ▶ High shrinking ratio.
- ▶ Self-extinguishing.



LINKED PRODUCTS:

Heat guns & accessories, see pages 95





ET 301 HEAT SHRINKABLE TUBING IN REEL

Code	Ø Internal expanded (mm)	Ø Internal recovered (mm)	Wall thickness recovered (mm)	Pack (m)
12205015	1,5	0,5	0,45	200
12205030	3	1	0,55	200
12205045	4,8	1,6	0,6	150
12205060	6	2	0,7	150
12205090	9	3	0,7	150
12205120	12	4	0,7	100
12205180	18	6	0,8	50
12205240	24	8	1	50
12205390	39	13	1,15	30



ET 301 HEAT SHRINKABLE TUBING IN DISPENSER BOX

Code	Ø Internal expanded (mm)	Ø Internal recovered (mm)	Wall thickness recovered (mm)	Pack (m)
12255015	1,5	0,5	0,45	15
12255030	3	1	0,55	15
12255060	6	2	0,7	10
12255090	9	3	0,7	8
12255120	12	4	0,7	7
12255180	18	6	0,8	4
12255240	24	8	1	3



ET 301 HEAT SHRINKABLE TUBING IN 1 MTR LENGTH

Code	Ø Internal expanded (mm)	Ø Internal recovered (mm)	Wall thickness recovered (mm)	Pack (m)
12275015	1,5	0,5	0,45	30
12275030	3	1	0,55	30
12275060	6	2	0,7	24
12275090	9	3	0,7	20
12275120	12	4	0,7	16
12275180	18	6	0,8	10
12275240	24	8	1	6
12275390	39	13	1,15	4*

*Packed in plastic bag.

ASSORTIBOX ET 100

with multifunctional gas tool

TECHNICAL DATA

Technical data tubing:	see ET 100.
Ø Int. sleeves (mm):	from 1,2/0,6 to 19,1/9,5.
Length sleeves (mm):	50/100/200.
Colours sleeves:	black, transparent, blue, red, white, green/yellow.
Total:	406 pcs / 21.700 mm.
Working temperature:	-55°C ÷ 135°C.
Shrinking temperature:	> 90°C.
Flammability rating:	self-extinguishing UL 224, 125°C (except transparent).
Longitudinal change:	-5%; +5%.
Dielectric strength:	> 20 kV/mm.



ASSORTIBOX ET100 - Composition cod.12233001

	Ø Sleeves	Length	Pcs for box
	(mm)	(mm)	nr.
●	1,2/0,6	50	25
⊘	1,2/0,6	50	25
●	1,2/0,6	50	25
●	1,2/0,8	50	25
⊘	1,2/0,8	50	25
●	1,2/0,8	50	25
●	2,4/1,2	50	20
⊘	2,4/1,2	50	20
○	2,4/1,2	50	20
●	3,2/1,6	50	50
●	4,8/2,4	50	40
●	6,4/3,2	50	15
⊘	6,4/3,2	50	15
●	9,5/4,7	50	15
●	9,5/4,7	50	15
●	9,5/4,7	50	15
●	9,5/4,7	50	15
●	12,7/6,4	100	10
●	19,1/9,5	200	6

N.B: multifunctional gas tool included in the box

ASSORTIBOX ET 301

with multifunctional gas tool

TECHNICAL DATA

Technical data tubing:	see ET 301.
Ø Int. sleeves (mm):	from 1,5/0,5 to 24/8.
Length sleeves (mm):	40/80/120/170.
Colours sleeves:	black, blue, red, white, green/yellow, brown.
Total:	170 pcs / 10.640 mm.
Working temperature:	-55°C ÷ 135°C.
Shrinking temperature:	> 90°C.
Flammability rating:	self-extinguishing UL 224, 125°C.
Longitudinal change:	+1%; -10%.
Dielectric strength:	> 20 kV/mm.



ASSORTIBOX ET301 - Composition cod. 12235001

	Ø Sleeves	Length	Pcs for box
	(mm)	(mm)	nr.
●	1,5/0,5	40	10
●	1,5/0,5	40	5
●	1,5/0,5	40	5
●	1,5/0,5	40	5
●	1,5/0,5	40	5
●	3/1	40	20
●	3/1	40	5
●	3/1	40	5
●	3/1	40	5
●	3/1	40	5
●	6/2	40	20
●	6/2	40	5
●	6/2	40	5
●	6/2	40	5
●	6/2	40	5
●	9/3	80	5
●	9/3	80	2
●	9/3	80	2
●	9/3	80	2
●	9/3	80	2
●	12/4	80	5
●	12/4	80	2
●	12/4	80	2
●	12/4	80	2
●	12/4	80	2
●	18/6	120	10
●	18/6	80	2
●	18/6	80	2
●	18/6	80	2
●	18/6	80	2
●	24/8	170	8
●	24/8	120	2
●	24/8	120	2
●	24/8	120	2
●	24/8	120	2

N.B: multifunctional gas tool included in the box

EL 301A WITH ADHESIVE



EL 301A is a flexible, heat shrinkable tubing in cross-linked polyolefin, with thermoplastic adhesive inside suitable for professional applications, such as insulation, identification and protection of wires and cables, in electric and electronic components. Its high shrinking ratio and its inner liner allow to seal and encapsulate the inner components, covering sections of different dimensions. Available in dispenser box, 1 mtr. length (reel on request).

TECHNICAL DATA

Shrinking ratio:	3: 1.
Diameters available:	from Ø 3 mm to Ø 24 mm.
Colours available:	black.
Working temperature:	-55°C ÷ 110°C.
Shrinking temperature:	> 100°C.
Flammability rating:	self-extinguishing (external wall).
Longitudinal change:	+1%; -15%.
Dielectric strength:	> 20 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

APPROVALS/CERTIFICATIONS

SAE-AMS-DTL-23053/4 class 3 (external wall)

ADHESIVE

APPLICATIONS

- Insulation and protection cables and joints.

BENEFITS

- Excellent insulating and waterproofing properties.



EL 301A HEAT SHRINKABLE TUBING IN DISPENSER BOX - 1 MTR LENGTH

Code	Pack	Code	Pack	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered
Box	(m)	1 mtr length	(m)	(mm)	(mm)	(mm)
12256030	15	12276030	30	3	1	1
12256060	12	12276060	24	6	2	1,1
12256090	10	12276090	20	9	3	1,3
12256120	8	12276120	16	12	4	1,7
12256180	5	12276180	10	18	6	2
12256240	3	12276240	6	24	8	2,5

*Packed in plastic bag.



LINKED PRODUCTS:

Heat guns & accessories, see pages 95



EL 401A WITH ADHESIVE



EL 401A is a flexible, heat shrinkable tubing in cross-linked polyolefin, with thermoplastic adhesive inside suitable for professional applications, such as insulation, identification and protection of wires and cables, in electric and electronic components. The high shrinking ratio and the thermoplastic adhesive inner liner allow to seal and encapsulate components, covering sections of different dimensions. Available in 1 m cut length (reel on request).

TECHNICAL DATA

Shrinking ratio:	4: 1.
Diameters available:	from Ø 4 mm to Ø 52 mm.
Colours available:	black.
Working temperature:	-55°C ÷ 110°C.
Shrinking temperature:	> 100°C.
Flammability rating:	self-extinguishing (external wall).
Longitudinal change:	+1%; -15%.
Dielectric strength:	> 20 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

APPROVALS/CERTIFICATIONS

SAE-AMS-DTL-23053/4 class 3 (external wall)

ADHESIVE

APPLICATIONS

- ▶ Insulation and protection cables and joints.

BENEFITS

- ▶ High shrinking ratio.
- ▶ Excellent insulating and waterproofing properties.



EL 401A HEAT SHRINKABLE TUBING IN 1 MTR LENGTH

Code	Ø Internal expanded	Ø Internal recovered	Wall thickness recovered	Pack
	(mm)	(mm)	(mm)	
12278040	4	1	1,02	30
12278080	8	2	1,02	24
12278120	12	3	1,3	20
12278160	16	4	1,78	12
12278240	24	6	2,1	6
12278320	32	8	2,5	10*
12278520	52	13	2,5	10*

*Packed in plastic bag.



LINKED PRODUCTS:

Heat guns & accessories, see pages 95



EM 100A WITH ADHESIVE



EM 100A is a medium wall heat shrinkable tubing in cross-linked polyolefin, with internal thermoplastic adhesive, suitable for a wide range of applications, such as insulating and protecting cable joints and terminations. The inner liner provides good moisture sealing and weathering protection. Good strain and abrasion resistance. Available in plastic bag 1 mtr. length.

TECHNICAL DATA

Shrinking ratio: 3:1.
 Diameters available: from Ø 12 mm to Ø 180 mm.
 Colours available: black.
 Working temperature: -40°C ÷ 120°C.
 Shrinking temperature: > 110°C.
 Flammability rating: not self-extinguishing.
 Longitudinal change: -10%.
 Dielectric strength: > 17 kV/mm.

NOTE

For availability, minimum order quantities and lead time of products on request, please ask to our sales department.

HALOGEN FREE

ADHESIVE

APPLICATIONS

- ▶ Insulation and protection cables and joints also in underground laying.

BENEFITS

- ▶ High mechanical resistance.
- ▶ Excellent insulating and waterproofing properties.



EM 100A HEAT SHRINKABLE TUBING IN 1 MTR LENGTH

Code	Ø Internal expanded (mm)	Ø Internal recovered (mm)	Wall thickness recovered (mm)	Pack (m)
12247012	12	3	2,2	25
12247019	22	6	2,3	15
12247030	33	8	2,6	10
12247040	40	12	2,6	5
12247050	55	17	2,9	3
12247063	65	19	3,15	3
12247070	72	22	3,15	2
12247095	92	26	3,15	1
12247115	115	35	3,35	1
12247140	180	60	3,5	1



LINKED PRODUCTS:

Heat guns & accessories, see pages 95

