

## Hose Protection Options for Assemblies



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## SAE AS1072 Aerospace and Industrial Firesleeve

- Braided version meets dimensional specifications of the SAE AS1072 Aerospace Grade Firesleeve standard.
- Standard color, Red Iron Oxide (RIO) and special Aluminized coating compound are compliant with the EU RoHS directive.
- Other colors are available as well as custom colors upon request.

Part Number

Knitted	Braided	Nominal ID	
		in	mm
KPJ04	KPJB04	1/4	6
KPJ05	KPJB05	5/16	8
KPJ06	KPJB06	3/8	10
KPJ07	KPJB07	7/16	11
KPJ08	KPJB08	1/2	13
KPJ09	KPJB09	9/16	14
KPJ10	KPJB10	5/8	16
KPJ11	KPJB11	11/16	17
KPJ12	KPJB12	3/4	19
KPJ13	KPJB13	13/16	20
KPJ14	KPJB14	7/8	22
KPJ15	KPJB15	15/16	23
KPJ16	KPJB16	1	25
KPJ18	KPJB18	1-1/8	29
KPJ20	KPJB20	1-1/4	32
KPJ22	KPJB22	1-3/8	35
KPJ24	KPJB24	1-1/2	38
KPJ26	KPJB26	1-5/8	41
KPJ28	KPJB28	1-3/4	44
KPJ30	KPJB30	1-7/8	48
KPJ32	KPJB32	2	51
KPJ34	KPJB34	2-1/8	54
KPJ36	KPJB36	2-1/4	57
KPJ38	KPJB38	2-3/8	60
KPJ40	KPJB40	2-1/2	64
KPJ42	KPJB42	2-5/8	67
KPJ44	KPJB44	2-3/4	70

Part Number

Knitted	Braided	Nominal ID	
		in	mm
KPJ48	KPJB48	3	76
KPJ52	KPJB52	3-1/4	83
KPJ56	KPJB56	3-1/2	89
KPJ60	KPJB60	3-3/4	95
KPJ64	KPJB64	4	102
	KPJB72	4-1/2	114
	KPJB80	5	127
	KPJB96	6	152

Color Code (-##)

-10	RIO (standard)
-20	Aluminized
-30	Black
-40	Gray
-50	Yellow
-60	Blue
-70	Red
-80	Green



This product is manufactured in a facility whose quality management system is registered to ISO9001:2008



# Pyrotherm HT & HS Sleeving Specification Sheet

Pyrotherm HT	
Characteristic	Specification
Substrate	Continuous filament E-glass (Heat treated)
Working Temperature	537°C (1000°F)
Chemical Reactivity	Good resistance to most chemicals Incompatible with fluorine, oxygen difluoride, chlorine bifluoride and alkalides.

Pyrotherm HS	
Characteristic	Specification
Substrate	Continuous filament E-glass
Abrasion Resistant Saturant	Aqueous Polymer Solution
Working Temperature	200°C (400°F)
Chemical Reactivity	Good resistance to most chemicals Incompatible with fluorine, oxygen difluoride, chlorine bifluoride and alkalides.

ID		Size	Part Number
In	mm		
1/2"	13	-8	KHT 08201
5/8"	15	-10	KHT 10201
3/4"	19	-12	KHT 12201
7/8"	22	-14	KHT 14201
1"	25	-16	KHT 16201
1-1/4"	31	-20	KHT 20201
1-3/8"	35	-22	KHT 22201
1-1/2"	38	-24	KHT 24201
1-3/4"	44	-28	KHT 28201
2"	50	-32	KHT 32201
2-1/4"	57	-36	KHT 36201
2-1/2"	63	-40	KHT 40201
3"	76	-48	KHT 48201
4"	101	-64	KHT 64201

ID		Size	Part Number
in	mm		
1/2"	13	-8	KHS 08201
5/8"	15	-10	KHS 10201
3/4"	19	-12	KHS 12201
7/8"	22	-14	KHS 14201
1"	25	-16	KHS 16201
1-1/4"	31	-20	KHS 20201
1-3/8"	35	-22	KHS 22201
1-1/2"	38	-24	KHS 24201
1-3/4"	44	-28	KHS 28201
2"	50	-32	KHS 32201
2-1/4"	57	-36	KHS 36201
2-1/2"	63	-40	KHS 40201
3"	76	-48	KHS 48201
4"	101	-64	KHS 64201



**ROHS**  
COMPLIANT

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ISO 9001  
QMI-SAI Global

## Pyrotex S/G Rope Technical Specifications

### Material Specifications

Material	Temperature Rating
Knitted or Braided Fiberglass Substrate	Continuous Protection 500°F (260°C)
Fully Polymerized Silicone Coating	Short Term Exposure 2220°F (1204°C)

### Dimensional Specifications

Part Number	Size		MOQ	
	in	mm	ft	m
KPJR083	1/2	13	200	60.9
KPJR12	3/4	19	200	60.9
KPJR16	1	25	200	60.9
KPJR20	1-1/4	32	200	60.9

### Resistance

Molten Splash Resistance	Excellent
Water Resistance	Excellent
Hydraulic Fluids	Good
Chemical Resistivity	Good



## Pyrotherm FG Rope Technical Specifications

### Dimensional Specifications

Part Number	Size		Ft/Carton	
	in	mm	ft	m
KFR02	1/8	3	1500	457.1
KFR04	1/4	6	1500	457.1
KFR06	3/8	10	700	213.3
KFR08	1/2	13	500	152.4
KFR10	5/8	16	300	91.4
KFR12	3/4	19	300	91.4
KFR14	7/8	22	200	60.9
KFR16	1	25	200	60.9
KFR20	1-1/4	32	125	38
KFR24	1-1/2	38	100	30.5
KFR28	1-3/4	44	90	27.4

### Material Specifications

Material	Temp Range
Multifilament Texturized Fiberglass	1000° F (537°C)



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## Spiral Guard Wrap Data

### Material Specifications

Material	Temp Range
HDPE	-58 thru 212° F (-50 thru 100°C)

### Dimensional Specifications

Part Number	Size	Spiral ID		Hose O.D. Range		Wall Thickness		Ft/Carton	
		in	mm	in	mm	in	mm	ft	m
KSGW06	-6	3/8	9	1/4 to 1/2	9 to 12	0.05	1.3	100	30.5
KSGW08	-8	1/2	12	1/2 to 11/16	12 to 17	0.05	1.3	100	30.5
KSGW12	-12	3/4	19	11/16 to 7/8	17 to 22	0.08	2	100	30.5
KSGW16	-16	1	25	7/8 to 1-1/8	22 to 29	0.09	2.3	100	30.5
KSGW20	-20	1-1/4	32	1-1/8 to 1-3/8	29 to 35	0.10	2.5	100	30.5
KSGW24	-24	1-1/2	38	1-3/8 to 1-5/8	35 to 41	0.11	2.8	100	30.5
KSGW32	-32	2	51	1-5/8 to 2-3/16	41 to 60	0.13	3.3	100	30.5
KSGW40	-40	2-1/2	64	2-3/16 to 2-5/8	60 to 67	0.15	3.8	100	30.5
KSGW48	-48	3	76	2-5/8 to 3-1/4	67 to 83	0.17	4.3	75	22.9
KSGW56	-56	3-1/2	89	3-1/4 to 3-5/8	83 to 92	0.19	4.8	50	15.2
KSGW64	-64	4	102	3-5/8 to 4-1/2	92 to 114	0.22	5.6	50	15.2
KSGW80	-80	5	127	4-1/2 to 5-1/8	114 to 130	0.23	5.8	40	12
KSGW88	-88	5-1/2	140	5-1/8 to 5-7/8	130 to 149	0.25	6.4	30	9

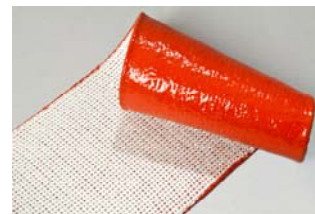
Available in black and yellow



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## Pyrotex S/G Tape Data

### Material Specifications

Material	Temperature Rating
Knitted Fiberglass Substrate	Continuous Protection 500°F (260°C) Short Term Exposure 2220°F (1204°C)
Fully Polymerized Silicone Coating (one sided)	

### Resistivity

Molten Splash Resistance	Excellent
Water Resistance	Excellent
Hydraulic Fluids	Good
Chemical Resistivity	Good

### Dimensional Specifications

Part Number	Width		Thickness		Standard Roll Length	
	in	mm	in	mm	ft	m
KPT16	1	25	1/8	3	100	30.5
KPT32	2	51	1/8	3	100	30.5
KPT48	3	76	1/8	3	100	30.5
KPT64	4	102	1/8	3	50	15.2
KPT80	5	127	1/8	3	50	15.2

## Pyrotex SA (Self Amalgamating) Tape Data

### Material Specifications

Material	Temperature Rating
Silicone, Self Amalgamating Tape	Continuous Protection 500°F (260°C)

### Dimensional Specifications

Part Number	Width		Thickness		Std Length	
	in	mm	in	mm	in	m
SA 16000-10	1	25	0.020	0.51	432	10.9
SA 24000-10	1.5	38	0.060	1.52	432	10.9

## Pyrotherm Fiberglass Tape Data

### Material Specifications

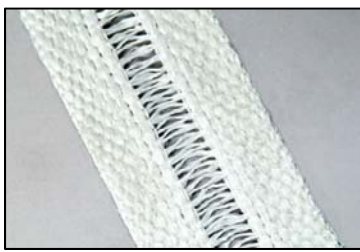
Material	Temperature Rating
Plain woven or Drop Warp Fiberglass Tape	Continuous Protection 1000°F (537°C)

### Dimensional Specifications

Part Number	Width		Thickness		Std Length	
	in	mm	in	mm	ft	m
KFGT 080	1/2	12	1/16	1.6	100	30.5
KFGT 160	1	25	1/16	1.6	100	30.5
KFGT 240	1-1/2	38	1/16	1.6	100	30.5
KFGT 320	2	51	1/16	1.6	100	30.5
KFGT 400	2-1/2	64	1/16	1.6	100	30.5
KFGT 480	3	76	1/16	1.6	100	30.5
KFGT 560	3-1/2	89	1/16	1.6	100	30.5
KFGT 640	4	102	1/16	1.6	100	30.5
KFGT 800	5	127	1/16	1.6	100	30.5
KFGT 960	6	152	1-1/16	1.6	100	30.5

### Dimensional Specifications

Part Number	Width		Thickness		Std Length	
	in	mm	in	mm	ft	m
KFGT 08	1/2	12	1/8	3	50	15.2
KFGT 16	1	25	1/8	3	100	30.5
KFGT 24	1-1/2	38	1/8	3	100	30.5
KFGT 32	2	51	1/8	3	100	30.5
KFGT 40	2-1/2	64	1/8	3	100	30.5
KFGT 48	3	76	1/8	3	100	30.5
KFGT 56	3-1/2	89	1/8	3	100	30.5
KFGT 64	4	102	1/8	3	100	30.5
KFGT 80	5	127	1/8	3	100	30.5



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## Tufftex Woven Nylon Abrasion Sleeving Dimensional Specification Sheet

### Dimensional Specifications

Spec #	Nom ID Size	Wall Thickness	ID Range	Lay Flat
KTF11800	0.688"	0.040"	0.66-0.76"	1.3125"
KTF12800	0.750"	0.040"	0.77-0.87"	1.8750"
KTF14800	0.875"	0.040"	0.84-1.00"	1.5625"
KTF16800	1.000"	0.045"	0.92-1.08"	1.7360"
KTF18800	1.125"	0.051"	1.05-1.21"	1.9580"
KTF20800	1.250"	0.051"	1.17-1.33"	2.0450"
KTF22800	1.375"	0.052"	1.36-1.49"	2.3500"
KTF24800	1.500"	0.052"	1.51-1.66"	2.5700"
KTF28800	1.750"	0.043"	1.73-1.84"	2.8750"
KTF20800	1.875"	0.045"	1.85-1.97"	3.0000"
KTF32800	2.000"	0.044"	1.99-2.14"	3.4375"
KTF35800	2.188"	0.054"	2.12-2.24"	3.5625"
KTF36800	2.250"	0.051"	2.31-2.46"	3.9000"
KTF40800	2.500"	0.056"	2.47-2.62"	4.0660"
KTF42800	2.625"	0.055"	2.59-2.72"	4.2310"
KTF44800	2.750"	0.046"	2.78-2.94"	4.7700"
KTF48800	3.000"	0.053"	2.86-3.01"	4.5200"
KTF52800	3.250"	0.044"	3.26-3.42"	5.3900"
KTF58800	3.625"	0.047"	3.58-3.73"	5.8230"

Material Property	Test Method	Result	Units
Composition	ASTM D 3677	Solution dyed (black) Texturized nylon-6	N/A
Flammability	MSHA Approved	Flammability: 0 Glow: 0	seconds
Abrasion	ISO 6945	PASS :50000	# of cycles
Melting Point	N/A	374-410	°F

Chemical Resistivity	
Gasoline	Very Good
Oil	Very Good
Mineral and Vegetable Oil	Very Good
Alcohols	Very Good
Diluted Bases	Very Good
Diluted Acids	Good
Benzene	Very Good
Acetone	Very Good
Ether	Very Good
Carbone Tetrachloride	Very Good
Chlorine Based Solvents	Very Good
Mildew and Bacteria Growth	Resistant

## Tufftex HLC Data

### Dimensional Specifications

Part Number	Nom ID		Standard Length	
	in	mm	ft	m
KTFHLC16	1	25	75 and 150	22.8 and 45.7
KTFHLC32	2	51	75 and 150	22.8 and 45.7
KTFHLC48	3	76	75 and 150	22.8 and 45.7
KTFHLC64	4	102	75 and 150	22.8 and 45.7
KTFHLC80	5	127	75 and 150	22.8 and 45.7
KTFHLC96	6	152	75 and 150	22.8 and 45.7
KTFHLC112	7	178	75 and 150	22.8 and 45.7
KTFHLC128	8	203	75 and 150	22.8 and 45.7

### Material Specifications

Material	Temperature Rating
Woven 1050 Ballistic Nylon- Urethane coating	Continuous Protection -65 thru 225°F (-54 thru 107°C)



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# FEP Heat Shrink Tubing

- High Temperature
- Excellent Chemical Resistance
- Ultra Clear

FEP Heat Shrink Tubing is a semi-rigid fluorinated ethylene propylene Teflon tubing rated for continuous service temperature from -55°C to 200°C.

The excellent electrical and mechanical properties of FEP make it ideal for chafe guards on braided metal hoses where fittings must be cleared and as terminal and splice insulation. Outstanding chemical inertness allows FEP to be used as a cover over pressure and temperature probes in corrosive chemicals where different diameters are encountered.

FEP is normally used where many of the properties inherent in PTFE are desired but the shrink temperature must be lower.

## Specifications:



*Low shrink temperature, extra clear*

<u>Order Size</u>	<u>Expanded Diameter</u>	<u>Recovered Diameter</u>	<u>Recovered Wall</u>
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### 1.3 to 1 Shrink

24	.031	.027	.008
22	.036	.032	.008
20	.045	.039	.008
18	.060	.049	.008
16	.075	.061	.009
14	.092	.072	.009
12	.115	.089	.009
10	.141	.114	.010
9	.158	.124	.010
8	.180	.143	.010
7	.197	.158	.011
6	.225	.180	.011
5	.248	.198	.011
4	.290	.226	.011
3	.310	.249	.011
2	.365	.280	.012
1	.400	.311	.012
0	.440	.349	.012
3/8	.500	.383	.015
7/16	.580	.448	.020
1/2	.666	.510	.020
5/8	.830	.637	.025
3/4	1.000	.764	.030
7/8	1.170	.891	.035
1"	1.330	1.020	.035

<u>Order Size</u>	<u>Expanded Diameter</u>	<u>Recovered Diameter</u>	<u>Recovered Wall</u>
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### 1.67 to 1 Shrink

3/32	.093	.056	.008
1/8	.125	.075	.010
3/16	.188	.115	.010
1/4	.250	.150	.010
3/8	.375	.225	.012
1/2	.500	.300	.015
3/4	.750	.450	.020
1"	1.000	.600	.025
1-1/2	1.500	.900	.030

Mil-I-23053-11 FDA Title 21 #177.1550

**Temperature Ratings:** -55°C to 200°C shrink 290°C

**Electrical:** Dielectric strength 2000 volts/mil.



- General purpose flexible polyolefin
- Flame retardant
- U/L, MIL-Spec.

# Heat Shrinkable Polyolefin Tubing

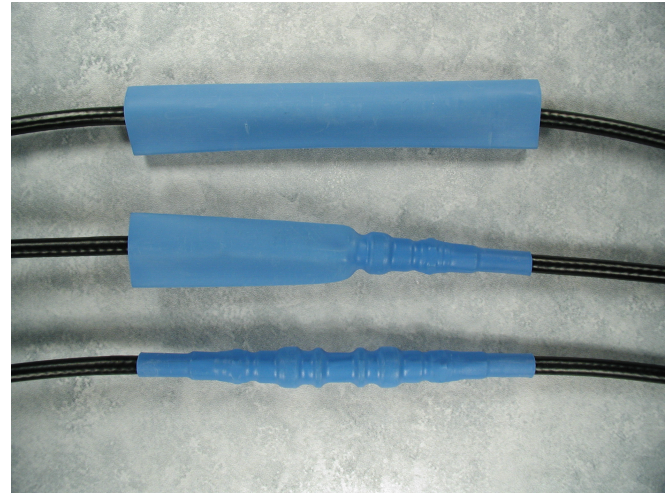
Heat Shrinkable Polyolefin Tubing is a highly flexible, radiation cross-linked tubing used for insulating, jacketing and identification. It will not melt, is mechanically tough and will not split when shrunk.

Made from flame-retardant polyolefin, it has excellent electrical, chemical and physical properties representing a good all purpose heat shrinkable tubing.

Application of heat above 121°C will shrink this tubing quickly to 50% of its supplied diameter or snug down on the object it is to cover.

Resists a wide range of chemicals and oils, as well as sunlight, moisture and fungus.

Also available in 3:1 and 4:1 shrink ratio and Medical Grade USP class VI (IP53MP).



*Shrink over terminals for insulation and strain relief.*

## Specifications:

<u>Order Size</u>	<u>Expanded Diameter</u>	<u>Recovered Diameter</u>	<u>Recovered Wall</u>
3/64"	.046"	.023"	.018"
1/16"	.063"	.031"	.018"
3/32"	.093"	.046"	.020"
1/8"	.125"	.062"	.020"
3/16"	.187"	.093"	.020"
1/4"	.250"	.125"	.025"
3/8"	.375"	.187"	.025"
1/2"	.500"	.250"	.025"
5/8"	.625"	.313"	.025"
3/4"	.750"	.375"	.030"
1"	1.000"	.500"	.035"
1-1/4"	1.250"	.625"	.040"
1-1/2"	1.500"	.750"	.040"
2"	2.000"	1.000"	.045"
3"	3.000"	1.500"	.050"
4"	4.000"	2.000"	.055"
5"	5.000"	2.500"	.060"
6"	5.900"	3.000"	.060"

U/L Subject224 VW-1

Mil-I-23053/5

**Storage:** very stable; can be stored over extended intervals without change.

**Temperature Rating:** continuous operation from -55°C to 135°C.

**Electrical:** 600 volts per mil.

**Standard Colors:** black, white, clear, red, blue and yellow (most sizes in brown, orange, green, violet and gray)

# 750/760

SPRING GUARD



**RECOMMENDED FOR:**

TJ24D and TJ26D Specialist Jacking Hose Assemblies, to control bend radius at end of hoses to avoid excessive strain on hose couplings. Can also be used with **PW24, PW26, T24A, T24C, T24D, T24S, T26A, T26C, T26D** and **T26S** Hoses. Can be used with **L000** Series Field Attachable and **T2000** Series BITELOK Couplings.

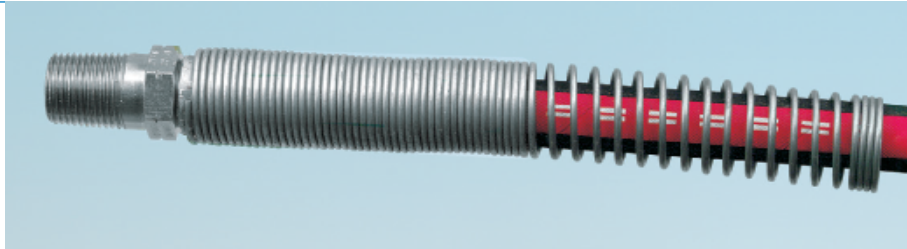
- 750** Suits some -4 (1/4") and -6 (3/8") hoses
- 760** Suits some -6 (3/8") hoses

**CONSTRUCTION:**

Spring Steel Wire; galvanised for corrosion protection.

**ASSEMBLY INSTRUCTIONS:**

Slide Spring Guards over the hose before assembling hose ends. After ends are assembled, twist and push Spring Guards onto the ferrules. The close pitched end of the Spring Guard goes over the ferrule, and the wide pitched end goes over the hose (as depicted in below image).





# Interlocked Stainless Steel and Galvanized Floppy Hose Protection Cover



## **KHI-IL-S STAINLESS STEEL 304**

## **KHI-IL-G GALVANIZED STEEL**

Hose I.D. Inches	Hose O.D. Inches	Wt. Per Foot Approx.
5/32"	.256"	0.052
3/16"	.285"	0.062
7/32"	.325"	0.092
1/4"	.345"	0.110
9/32"	.375"	0.120
5/16"	.405"	0.130
3/8"	.375"	0.160
1/2"	.600"	0.180
9/16"	.665"	0.185
5/8"	.725"	0.190
11/16"	.790"	0.200
3/4"	.850"	0.210
13/16"	.950"	0.230
7/8"	.980"	0.250
15/16"	1.040"	0.270



Packed



Unpacked

### **PACKING AVAILABILITY**

**All dimensions are based on the hose in the extended position and all weights are approximate.**

Special swaged fittings available upon request.

Bronze or brass material is available upon request. Dimensions are the same as galvanized steel.

#### TYPE PACKING

#### PRESSURE RANGE

#### VACUUM

#### TEMPERATURE

COTTON  
STAINLESS WIRE  
APYROUS  
ELASTOMERIC

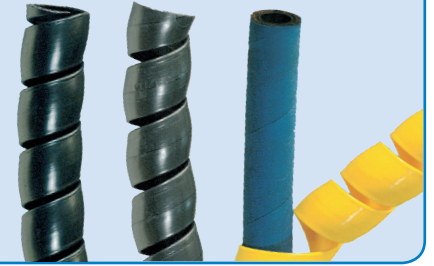
UP TO 15 PSI  
UP TO 15 PSI  
UP TO 15 PSI  
UP TO 20 PSI

UP TO 15 MERCURY  
UP TO 15 MERCURY  
UP TO 15 MERCURY  
UP TO 20 MERCURY

300 F  
1500 F  
450 F  
180 F

# RSG

POLYETHYLENE SPIRAL GUARD  
RSG (BLACK), RSGY (YELLOW),  
RSGF (FRAS)



**RECOMMENDED FOR:**

Lightweight, cost-effective protection of hoses and cables from abrasion and impact. It can also be used to bundle hoses together in groups. RSGF meets Flame Resistance Designation “U.S. MSHA” of the US Department of Labor, Mine Safety and Health Administration.

**CONSTRUCTION:**

Polyethylene plastic spiral, with rounded edges to protect hose cover. RSG Black; RSGY Yellow; RSGF FRAS (Dark Grey). Polyethylene is not affected by exposure to air, water, hydraulic oil and many other fluids.

**TEMPERATURE RANGE:**

From -40°C to +120°C (-40°F to +248°F).

**ASSEMBLY INSTRUCTIONS:**

RYCO Spiral Guard can easily be applied after hose assembly because of its spiral form. Place one end of completed hose assembly in a vice. Wrap coil onto hose. It is recommended to choose RYCO Spiral Guard size so that it is a tight fit on the hose. This will keep the Spiral Guard in place on the hose. The Spiral Guard expands to fit the hose or hose bundle. Allow extra length of Spiral Guard to allow for this expansion.

**SIZE SELECTION:**

The tables below show RYCO Spiral Guard size selection for a tight fit on the hose. Due to the Spiral Guard expanding to fit the hose, extra length of Spiral Guard must be allowed. This extra length can be estimated as follows:  
T26A Nominal OD = 18,9 mm (see chart on page 145)  
RSG-20L Nominal ID = 15,0 mm (from chart below)  
Estimated length of RSG-20L to cover 2,3 metres of T26A

$$= \frac{18,9}{15,0} \times 2,3 \text{ m} = 2,90 \text{ metres}$$

**HOW TO ORDER:**

Complete the Part Number: **RSG-16L, RSGY-75L, RSGF-50L** etc.

Sizes -16L to -90L: 20 m (65.6 ft) coils or cut to length.

Size -110L: 10 m (32.8 ft) coils or cut to length.

SPIRAL GUARD					HOSE SERIES																									
DASH SIZE	NOMINAL ID		NOMINAL OD		T3000A/D/S	T3600A/D/S	T4000A/D/S	T5000A/D/S	T6000A/D/S	H3000A/D/S	H4000A/D/S	H5000A/D/S	H6000A/D/S	T1A/D/S	T1F	T2A/D/S	T2C	TXA2D	DF2A	E2	TJ2D	H12A/D/S	R45HA/D	R45PA/D	T5	D2B	MS1000	CS1000		
	mm	inch	mm	inch																										
-12L	9,0	0,35	13,0	0,51	-4	-4	-4	-4						-3	-3				-4											
-16L	12,0	0,47	16,5	0,65	-5,-6	-5,-6	-5	-5	-4,-5					-4,-5	-4,-5	-4	-4		-5	-4	-4						-4,-5			
-20L	15,0	0,59	20,0	0,79	-8	-8	-6,-8	-6,-8	-6		-6	-6	-6	-6,-8	-6,-8	-5,-6	-5,-6		-6	-5,-6	-5	-6				-6	-6,-8		-8	-8
-25L	19,0	0,75	24,5	0,96	-10	-10	-8,-10	-8,-10	-8		-8	-8	-8	-10	-10	-8,-10	-8,-10	-8,-10	-8	-8,-10		-8			-8	-10	-10	-10	-10	-10
-32L	23,0	0,91	30,0	1,18	-12	-12	-12	-10,-12			-10,-12	-10,-12	-10,-12	-12	-12	-12	-12	-12	-10,-12	-12		-10,12			-10	-12	-12	-12	-12	
-40L	30,5	1,20	39,0	1,54	-16	-16	-16	-16			-16	-16	-16	-16	-16	-16	-16	-16	-16	-16		16	-12,-16	-12,16	-16,-20	-16	-16	-16	-16	
-50L	38,0	1,50	46,5	1,83							-20	-20	-20	-20,-24		-20	-20					-20	-20	-20	-24		-20,-24	-20,-24		
-63L	47,0	1,85	58,0	2,28							-24	-24	-24	-32		-24	-24,-32					-24	-24	-24	-32	-24	-32	-32	-32	
-75L	61,0	2,40	73,0	2,87							-32	-32	-32			-32,-40	-32					-32	-32	-32		-32				
-90L	70,5	2,78	84,5	3,33												-48						-40								
-110L	84,0	3,31	99,0	3,90																										

DASH SIZE	NOMINAL ID		NOMINAL OD		BT1	RQP1	RQP2	RQP5	RQP6	TW1	PW2	SR	SRF	RTH1	FB2	M1	MP1	M2	PL1	PL1D	M2G	TP7, TP7N	TP7T, TP7TN	TP8, TP8N	TP8T, TP8TN	TP3000	TPGL
	mm	inch	mm	inch																							
-12L	9,0	0,35	13,0	0,51		-4								-4,-6													
-16L	12,0	0,47	16,5	0,65	-4,-5	-5	-4	-5	-5,-6		-4			-8		-5,-6		-4	-5,-6	-5,-6		-4	-4	-4	-4	-4	-2
-20L	15,0	0,59	20,0	0,79	-6	-6,-8	-5,-6	-6,-8	-8	-6	-5,-6			-10	-6		-4,-6	-6	-8	-8	-4,-6	-8	-8	-8	-8	-6	
-25L	19,0	0,75	24,5	0,96	-8,-10	-10	-8,-10	-10	-10	-8				-12	-8		-8,-10	-8	-10	-10	-8					-8	
-32L	23,0	0,91	30,0	1,18	-12	-12	-12	-12	-12					-16	-10		-12	-12	-12	-12	-12	-12					
-40L	30,5	1,20	39,0	1,54	-16	-16	-16	-16,-20						-12			-16					-16					
-50L	38,0	1,50	46,5	1,83			-20	-24					-16	-16			-20										
-63L	47,0	1,85	58,0	2,28			-24	-32					-20,-24														
-75L	61,0	2,40	73,0	2,87			-32						-32														
-90L	70,5	2,78	84,5	3,33									-40														
-110L	84,0	3,31	99,0	3,90									-48														

