



## Sleeving

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# Sleeving

## PVC Tubing

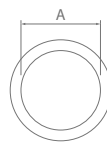


- General all around harness protection.
- Self-extinguishing fire retardant PVC.
- Wide range of lengths & sizes available.

**Tubing :** Flexible V75 Cable Grade PVC  
**Burning Behaviour :** Self-extinguishing  
**Hardness :** Shore A 92  
**Operating Temperature :** Continuous 75°C



PVC8/25

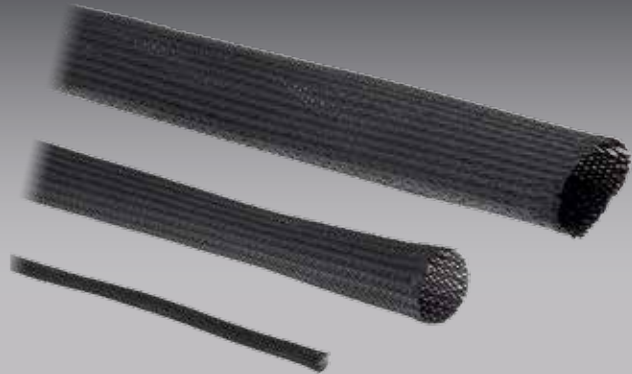


PVC35/50

### PVC Tubing

Roll Length - 25m	Roll Length - 50m	Roll Length - 100m	Roll Length - 200m	Roll Length - 250m	Inside Ø - A (mm)	Wall Thickness (mm)
PVC4/25	—	—	—	PVC4/250	4	0.5
PVC6/25	—	—	PVC6/200	—	6	0.5
PVC8/25	—	—	PVC8/200	—	8	0.65
PVC10/25	—	—	PVC10/200	—	10	0.65
PVC12/25	—	PVC12/100	—	—	12	0.85
PVC16/25	—	PVC16/100	—	—	16	0.85
—	PVC20/50	PVC20/100	—	—	20	0.85
—	PVC25/50	—	—	—	25	0.85
—	PVC30/50	—	—	—	30	1.0
—	PVC35/50	—	—	—	35	1.0
—	PVC40/50	—	—	—	40	1.0

- Extremely flexible & easy to apply over irregular shapes.
- Open weave construction allows for complete drainage.
- Salt, oil, most fuels, solvent and abrasion resistant.
- Broad operating temperature.
- Wide range of lengths & sizes available.



**Material :** Braided Polyethelene Terephthalate  
**Burning Behaviour :** UL225, method VFW-1  
**Operating Temperature** -70°C to 120°C



HT-19

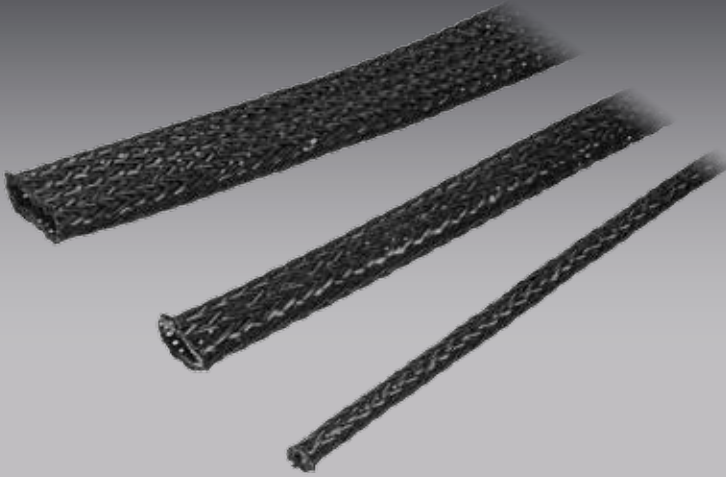
## Flexible Braiding

Roll Length – 10m	Roll Length – 50m	Roll Length – 100m	Normal Size (mm)	Expanded Size (mm)
—	<b>SZ0208/50</b>	<b>SZ0208/100</b>	2	8
—	<b>SZ0616/50</b>	<b>SZ0616/100</b>	6	16
<b>SZ1226/10</b>	<b>SZ1226/50</b>	—	12	26
<b>SZ2040/10</b>	<b>SZ2040/50</b>	—	20	40
<b>SZ2850/10</b>	<b>SZ2850/50</b>	—	28	50
<b>SZ3670/10</b>	<b>SZ3670/50</b>	—	36	70
HT-19	Electric Knife			



# Sleeving

## Flexible Braiding – Nylon



- Self-extinguishing, flame retardant & halogen free.
- Extremely flexible & easy to apply over irregular shapes.
- Open weave construction allows for complete drainage.
- High abrasion, chemical, oil & solvent resistance.
- Broad operating temperature.

**Material :** Polyamide 6.6  
**Operating Temperature :** -60°C to 150°C  
 Peak 160°C  
**Melting Point :** 250°C  
**Burning Behaviour :** UL94 V2, FMVSS 302  
 Self-extinguishing Type A, D45 1333  
**Approvals :** RoHS



### Flexible Braiding – Nylon

Roll Length – 25m	Normal Size (mm)	Expanded Size (mm)
<b>SZPLA0308/25</b>	3	8
<b>SZPLA0514/25</b>	5	14
<b>SZPLA0819/25</b>	8	19
<b>SZPLA1124/25</b>	11	24
<b>SZPLA1430/25</b>	14	30
<b>HT-19</b>	Electric Knife	

- Withstands temperatures of up to 250°C.
- Braided E glass.
- Elastomer coated.
- Good flexibility.
- Resistance against:
  - ozone
  - ultraviolet radiation
  - humidity
- Compliant to 2002/95/EC (RoHS) directive.
- Wide range of lengths & sizes available.



**Material :** E Glass  
**Coating :** Silicone Elastomer  
**Breakthrough Voltage :** 7kV @ 20°C  
**Approvals :** 2002/95/EC (RoHS)  
**Operating Temperature :** Short Term 250°C



## High Temp Sleeving

Roll Length – 20m	Roll Length – 50m	Roll Length – 100m	Roll Length – 200m	Inside Ø – A (mm)	Wall Thickness (mm)
—	—	—	<b>VF4BLK/200</b>	4.6	0.6
<b>VF6BLK/20</b>	—	—	<b>VF6BLK/200</b>	6.6	0.6
<b>VF8BLK/20</b>	—	—	<b>VF8BLK/200</b>	8.8	0.8
—	—	<b>VF10BLK/100</b>	—	10.8	0.8
—	<b>VF12BLK/50</b>	<b>VF12BLK/100</b>	—	12.8	0.8
—	<b>VF15BLK/50</b>	—	—	15.8	0.8
—	<b>VF20BLK/50</b>	—	—	20.8	0.8



# Sleeving

## Spiral Wrap



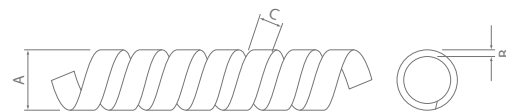
- Light-weight and easy to use harness protection system.
- Excellent electrical, abrasive and binding strength.
- Flexible construction enables the easy routing of wiring looms.
- Durable and reusable.

Material :

Nylon



CTC-12B/10



### Spiral Wrap

Roll Length – 10m	Wrapping Range (mm)	Outside Ø – A (mm)	Wall Thickness – B (mm)	Wrap Width – C (mm)
<b>CTC-3B/10</b>	1.5 – 10	3	0.5	4.7
<b>CTC-6B/10</b>	4 – 15	6	0.6	6.7
<b>CTC-12B/10</b>	9 – 32	12	0.85	15.0
<b>CTC-16B/10</b>	12 – 35	16	1.0	15.5
<b>CTC-24B/10</b>	20 – 100	24	1.3	21.5



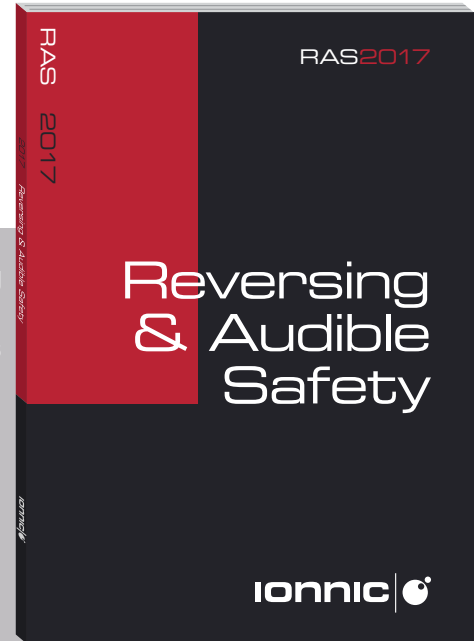
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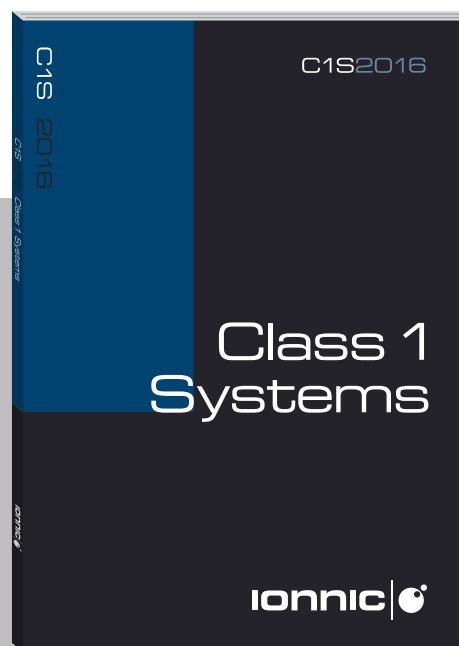
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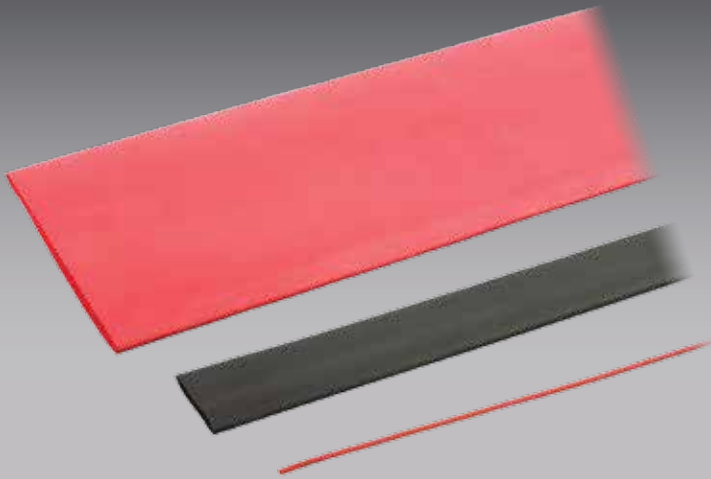


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# Sleeving

## Standard Wall Heatshrink



- Available in assortment kits, cut length packs, rolls and dispenser boxes.
- Reliable and cost-effective for standard duty electrical applications.
- 2:1 shrink ratio covers wide range of applications.
- Highly resistant to decay, chemicals, copper corrosion and ultra violet rays.
- Lightweight & flexible.

**Tubing :** Polyolefin  
**Shrink Temperature :** 95°C  
**Dielectric Strength :** >20kV/mm  
**Operating Temperature :** -55°C to 125°C

### Standard Wall Heatshrink Specifications

Part No. Prefix	Diameter (mm)	Recovered Diameter (mm)	Recovered Wall Thickness (mm)
DHSR1.5	1.5	0.75	0.36
DHSR2.5	2.5	1.2	0.44
DHSR3.5	3.5	1.7	0.44
DHSR5	5	2.5	0.56
DHSR7	7	3.5	0.56
DHSR10	10	5	0.56
DHSR13	13	6.5	0.69
DHSR20	20	10	0.78
DHSR25	25	12.5	0.86
DHSR30	30	15	0.86
DHSR40	40	20	0.96
DHSR50	50	25	0.96
DHSX76	76	38	1.27
DHSR100	100	50	1.4

### Heatshrink Application



Cut length of heatshrink allowing for approximately 10mm of overlap.



Apply heat thoroughly to the entire strip using hot air gun or similar tool.



Depending on the type of heatshrink used, the shrink ratio will be at least 2:1.



## 2:1 Standard Wall Heatshrink – 40mm/50mm Assortment Kit

Part No.	Contents:			
<b>HS-KIT</b>	20 x HS10 (black) 40 x HS10 (red)	20 x HS13 (black) 40 x HS13 (red)	10 x HS20 (black) 20 x HS20 (red)	10 x HS25 (black) 20 x HS25 (red)



## 2:1 Standard Wall Heatshrink – 40mm/50mm Lengths

Red	Black	Pack Qty	Cut Length (mm)
<b>HS10-40RED/40</b>	<b>HS10-40BLK/40</b>	40	40
<b>HS13-40RED/40</b>	<b>HS13-40BLK/40</b>	40	40
<b>HS20-40RED/20</b>	<b>HS20-40BLK/20</b>	20	40
<b>HS25-50RED/10</b>	<b>HS25-50BLK/10</b>	10	50



## 2:1 Standard Wall Heatshrink – Dispenser Boxes

Red	Black	Roll Length (m)
<b>HSD2.5RED/20</b>	<b>HSD2.5BLK/20</b>	20
<b>HSD3.5RED/20</b>	<b>HSD3.5BLK/20</b>	20
<b>HSD5RED/10</b>	<b>HSD5BLK/10</b>	10
<b>HSD7RED/10</b>	<b>HSD7BLK/10</b>	10
<b>HSD10RED/10</b>	<b>HSD10BLK/10</b>	10
<b>HSD13RED/5</b>	<b>HSD13BLK/5</b>	5
<b>HSD20RED/5</b>	<b>HSD20BLK/5</b>	5
<b>HSD25RED/5</b>	<b>HSD25BLK/5</b>	5



# Sleeving



## 2:1 Standard Wall Heatshrink – 1.2m Lengths

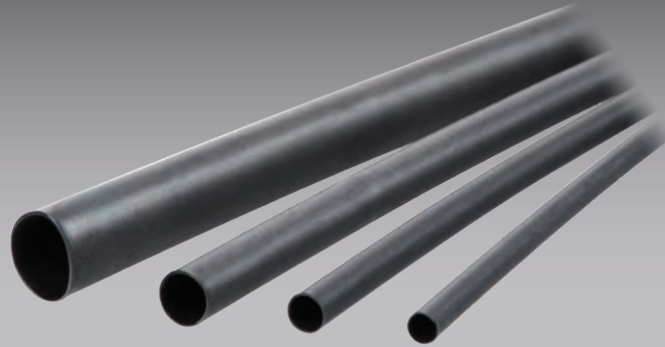
Red	Black	Red	Black
<b>HS1.5RED</b>	<b>HS1.5BLK</b>	<b>HS20RED</b>	<b>HS20BLK</b>
<b>HS2.5RED</b>	<b>HS2.5BLK</b>	<b>HS25RED</b>	<b>HS25BLK</b>
<b>HS3.5RED</b>	<b>HS3.5BLK</b>	<b>HS30RED</b>	<b>HS30BLK</b>
<b>HS5RED</b>	<b>HS5BLK</b>	<b>HS40RED</b>	<b>HS40BLK</b>
<b>HS7RED</b>	<b>HS7BLK</b>	<b>HS50RED</b>	<b>HS50BLK</b>
<b>HS10RED</b>	<b>HS10BLK</b>	<b>HS76RED</b>	<b>HS76BLK</b>
<b>HS13RED</b>	<b>HS13BLK</b>		



## 2:1 Standard Wall Heatshrink – Rolls

Red	Black	Length (m)
<b>HSR1.5RED/200</b>	<b>HSR1.5BLK/200</b>	200
<b>HSR2.5RED/200</b>	<b>HSR2.5BLK/200</b>	200
<b>HSR3.5RED/200</b>	<b>HSR3.5BLK/200</b>	200
<b>HSR5RED/100</b>	<b>HSR5BLK/100</b>	100
<b>HSR7RED/50</b>	<b>HSR7BLK/50</b>	50
<b>HSR10RED/50</b>	<b>HSR10BLK/50</b>	50
<b>HSR13RED/50</b>	<b>HSR13BLK/50</b>	50
<b>HSR20RED/50</b>	<b>HSR20BLK/50</b>	50
<b>HSR25RED/50</b>	<b>HSR25BLK/50</b>	50
<b>HSR30RED/50</b>	<b>HSR30BLK/50</b>	50
<b>HSR40RED/25</b>	<b>HSR40BLK/25</b>	25
<b>HSR50RED/25</b>	<b>HSR50BLK/25</b>	25
<b>HSR100RED/25</b>	<b>HSR100BLK/25</b>	25

- Available in assortment kits, cut length packs and rolls.
- Adhesive lining for ultra secure connection from cable to connector & protection against harsh environment.
- Wide range of shrink ratios and sizes.
- Flame-retardant & mechanically tough.
- Lightweight & flexible.
- Strain Relief Sleeves – Provides extremely secure connection between cable and connector with the highest level of physical protection.

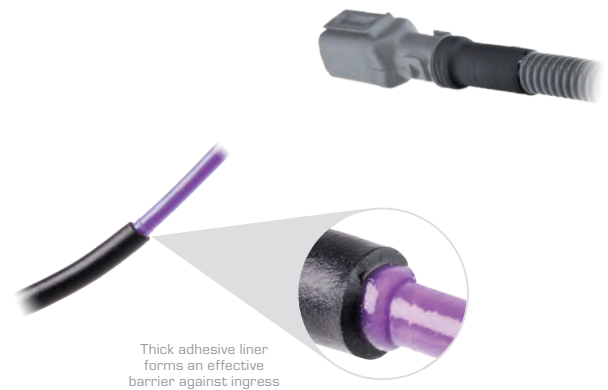


<b>Tubing :</b>		Polyolefin
<b>Shrink Temperature :</b>		95°C
	Thick Wall	105°C
<b>Dielectric Strength :</b>		>15kV/mm
	Medium Wall	>20kV/mm
<b>Operating Temperature :</b>	Dual Wall	-55°C to 80°C
	Medium Wall, Thick Wall	-55°C to 110°C

### 3:1 Dual Wall Heatshrink Specifications

Part No. Prefix	Diameter (mm)	Recovered Diameter (mm)	Recovered Wall Thickness (mm)
DW3	3	1	0.95
DW4.8	4.8	1.6	1.1
DW6	6	2	1.15
DW9	9	3	1.3
DW12	12	4	1.4
DW18	18	6	1.6
DW24	24	8	1.9
DW39	39	13	2.5

Recovered wall thickness excludes adhesive.



### 3:1 Dual Wall Heatshrink – 40mm/50mm Assortment Kit

Part No.	Contents:			
<b>DW-KIT</b>	20 x DW9 (black) 20 x DW9 (red)	20 x DW12 (black) 20 x DW12 (red)	20 x DW18 (black) 20 x DW18 (red)	20 x DW24 (black) 20 x DW24 (red)



# Sleeving



## 3:1 Dual Wall Heatshrink – 40mm/50mm Lengths

Red	Black	Pack Qty	Cut Length (mm)
<b>DW9-40RED/20</b>	<b>DW9-40BLK/20</b>	20	40
<b>DW12-40RED/20</b>	<b>DW12-40BLK/20</b>	20	40
<b>DW18-40RED/10</b>	<b>DW18-40BLK/10</b>	10	40
<b>DW24-50RED/5</b>	<b>DW24-50BLK/5</b>	5	50

## 3:1 Dual Wall Heatshrink – 1.2m Lengths

Red	Black
<b>DW3RED</b>	<b>DW3BLK</b>
<b>DW4.8RED</b>	<b>DW4.8BLK</b>
<b>DW6RED</b>	<b>DW6BLK</b>
<b>DW9RED</b>	<b>DW9BLK</b>
<b>DW12RED</b>	<b>DW12BLK</b>
<b>DW18RED</b>	<b>DW18BLK</b>
<b>DW24RED</b>	<b>DW24BLK</b>
<b>DW39RED</b>	<b>DW39BLK</b>

## 3:1 Dual Wall Heatshrink – Rolls

Red	Black	Length (m)
<b>DWR3RED/200</b>	<b>DWR3BLK/200</b>	200
<b>DWR4.8RED/100</b>	<b>DWR4.8BLK/100</b>	100
<b>DWR6RED/100</b>	<b>DWR6BLK/100</b>	100
<b>DWR9RED/50</b>	<b>DWR9BLK/50</b>	50
<b>DWR12RED/25</b>	<b>DWR12BLK/25</b>	25
<b>DWR18RED/25</b>	<b>DWR18BLK/25</b>	25
<b>DWR24RED/25</b>	<b>DWR24BLK/25</b>	25

## 3.5:1 Medium Wall Heatshrink – 1.2m Lengths

Black	Ø (mm)	Recovered Ø (mm)	Recovered Wall Thickness (mm)
<b>MW12</b>	12	3	1.5
<b>MW22</b>	22	6	2.5
<b>MW27</b>	27	8	2.5
<b>MW35</b>	35	9	2.5
<b>MW40</b>	40	12	2.5
<b>MW56</b>	56	17	2.5
<b>MW72</b>	72	22	2.5

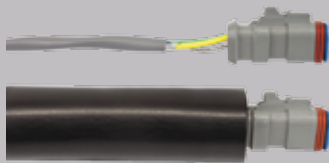
Recovered wall thickness excludes adhesive.

## 4:1 Dual Wall Heatshrink – 1.2m Lengths

Black	Ø (mm)	Recovered Ø (mm)	Recovered Wall Thickness (mm)
<b>ES2000-1</b>	5.7	1.3	0.7
<b>ES2000-2</b>	7.5	1.7	0.8
<b>ES2000-3</b>	11	2.4	0.9
<b>ES2000-4</b>	18	4.5	1.0

Recovered wall thickness excludes adhesive.

## Strain Relief Sleeve Application



Place Strain Relief Sleeve over cable as shown with the 15mm slip-free area covering part of connector.



Apply heat starting at the connector end. The 15mm adhesive free area will grip to connector providing a reliable connection for the remaining shrink.



Strain Relief Sleeves shrink down to approximately 1/4 of original size.

## 4.5:1 Thick Wall Heatshrink – Strain Relief Sleeves

Black	Ø (mm)	Recovered Ø (mm)	Recovered Wall Thickness (mm)	Length (mm)
<b>SRS43</b>	43	10	3.5	140

Recovered wall thickness excludes adhesive.

