

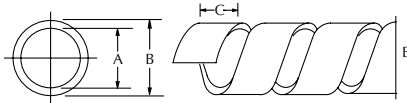
# Wiring Duct – Accessories



## Spiral Wrap

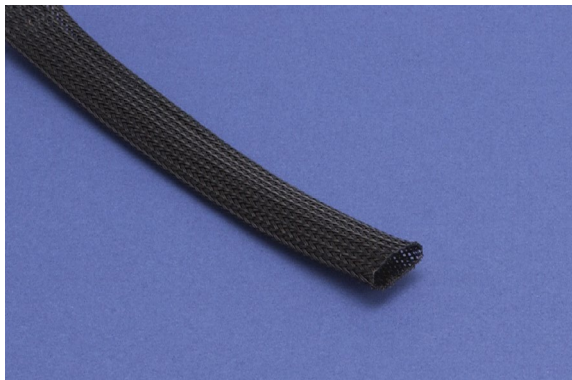
For neatly grouping wire bundles simply and economically, spiral wrap has no equal. Strong, yet easy to install, it protects the wire bundle, keeping it flexible though tightly contained. It is easily removed and reusable for temporary wiring.

### Dimensions



Catalog Number		Dimensions in Inches			Wire Bundle Size in Inches	Feet per Carton
<i>Polyethylene</i>	<i>Flame-Retardant Polyethylene</i>	A	B	C		
<b>P-1</b>	<b>PA1</b>	.06	.12	.20	1/16 to 1/2	160
<b>P-2</b>	<b>PA2</b>	.16	.24	.31	¼ to 2	80
<b>P-3</b>	<b>PA3</b>	.31	.39	.47	3/8 to 3	80
<b>P-4</b>	<b>PA4</b>	.35	.47	.47	½ to 4	65

Spiral Wrap				
Part Number	Price	Description	Color	Length
<b>P-1</b>	\$14.00	0.125" nominal o.d. Polyethylene spiral wrap used for wire bundles from 1/16 to 1/2 inch diameter.	Natural	160 ft./pack
<b>PA1</b>	\$20.00	0.125" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 1/16 to 1/2 inch diameter.	White	160 ft./pack
<b>P-2</b>	\$15.00	0.25" nominal o.d. Polyethylene spiral wrap used for wire bundles from 1/4 to 2 inch diameter.	Natural	80 ft./pack
<b>PA2</b>	\$21.00	0.25" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 1/4 to 2 inch diameter.	White	80 ft./pack
<b>P-3</b>	\$24.00	0.375" nominal o.d. Polyethylene spiral wrap used for wire bundles from 3/8 to 3 inch diameter.	Natural	80 ft./pack
<b>PA3</b>	\$37.00	0.375" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 3/8 to 3 inch diameter.	White	80 ft./pack
<b>P-4</b>	\$32.00	0.5" nominal o.d. Polyethylene spiral wrap used for wire bundles from 1/2 to 4 inch diameter.	Natural	65 ft./pack
<b>PA4</b>	\$46.00	0.5" nominal o.d. self-extinguishing Polyethylene spiral wrap used for wire bundles from 1/2 to 4 inch diameter.	White	65 ft./pack



## Braided Sleeving

This lightweight, expandable, self-extinguishing polyester sleeving has an open weave to allow maximum diameter expansion. It is super-flexible and easy to install, gripping objects of various shapes and sizes reliably. Abrasion-resistant, it provides extra protection against chemicals and flame.

Braided Expandable Sleeving Material Specifications	
<b>Operating Temp</b>	-50°C to +150°C (-58°F to +302°F)
<b>Physical Properties</b>	Self-extinguishing for UL 94V-2
<b>Maximum Elongation</b>	42%
<b>Diameter Expansion</b>	100%
<b>Other</b>	Halogen-free

Expandable Sleeving				
Part Number	Price	Description	Color	Length
<b>TY-5</b>	\$95.00	Braided expandable polyester sleeving, 0.197" (5mm) nominal i.d., 0.157" (4mm) to 0.472" (12mm) nominal range	Black	325 ft./pack
<b>TY-10</b>	\$177.00	Braided expandable polyester sleeving, 0.375" (10mm) nominal i.d., 0.315" (8mm) to 0.866" (22mm) nominal range	Black	325 ft./pack
<b>TY-20</b>	\$152.00	Braided expandable polyester sleeving, 0.750" (20mm) nominal i.d., 0.630" (16mm) to 1.378" (35mm) nominal range	Black	164 ft./pack
<b>TY-30</b>	\$219.00	Braided expandable polyester sleeving, 1.125" (30mm) nominal i.d., 0.984" (25mm) to 1.890" (48mm) nominal range	Black	164 ft./pack
<b>TY-50</b>	\$315.00	Braided expandable polyester sleeving, 2.0" (50mm) nominal i.d., 1.575" (40mm) to 2.825" (72mm) nominal range	Black	164 ft./pack

# Wiring Duct – Material Specifications

Material Specifications								
Materials	Test Standard	Unit of Measure	Rigid PVC	Polypropylene	PVC Molded Components	Polyamide 6	Polyethylene	Flame Retardant Polyethylene
Technical Characteristics								
<b>Chemical/Physical Properties</b>								
<b>Specific Gravity</b>	ASTM D792	g/cm <sup>3</sup>	1.55	1.01	1.32	1.14	0.92	0.97
<b>H<sub>2</sub>O 73.4°F Absorption</b>	ISO 62	%	<0.1	0.02	<0.1	2.5	<0.1	<0.1
<b>Formaldehyde</b>	–	ppm	absent	absent	absent	absent	absent	absent
<b>Cadmium</b>	–	ppm	absent	absent	absent	absent	absent	absent
<b>Mechanical Properties</b>								
<b>Tensile Stress at Break</b>	ASTM D638	MPa	39	28	30	45	17	15
<b>Traction Strength</b>	ASTM D638	MPa	44	27	27	55	9.5	9
<b>Elongation at Break</b>	ASTM D638	%	130	200	97	250	400	600
<b>Modulus of Elasticity at Traction</b>	ASTM D638	MPa	4400	n/a	–	950	–	240
<b>Modulus of Elasticity at Flexion</b>	ASTM D790	MPa	3200	2100	–	1100	210	130
<b>Thermal Properties</b>								
<b>Temperature VICAT</b>	ASTM D1525	°C	84	95	70	198	89	–
<b>HDT</b>	ASTM D648	°C	72	60	60	185	–	–
<b>Coefficient of Expansion</b>	ASTM D696	K <sup>-1</sup>	6 10 <sup>-5</sup>	10 <sup>-5</sup>	8 10 <sup>-5</sup>	8-10 10 <sup>-5</sup>	22 10 <sup>-5</sup>	10 <sup>-5</sup>
<b>Specific Heat</b>	ASTM C351	kJ/kgK	0.94	n/a	1.24	1.7	–	–
<b>Thermal Conductivity</b>	ASTM C177	W/mK	0.14	0.21	0.14	0.29	0.32	0.32
<b>Electrical Properties</b>								
<b>Dielectric Constant</b>	ASTM D150	–	3.2 - 4.0	2.5	3.2	5.0	2.4	2.3
<b>Dielectric Strength</b>	IEC 243	kV/mm	70	25	60	35	90	90
<b>Surface Resistance</b>	IEC 93	Ω	10 <sup>13</sup>	10 <sup>13</sup>	10 <sup>13</sup>	5 10 <sup>11</sup>	10 <sup>13</sup>	10 <sup>13</sup>
<b>Self-Extinguishing</b>								
<b>Self-Extinguishing UL 94 1.6 mm</b>	UL 94	–	V-0	V-0	V-0	V-2	HB	V-2
<b>Self-Extinguishing UL 94 3.2 mm</b>	UL 94	–	V-0	V-0	V-0	V-2	HB	V-2
<b>Hot Wire Test (2 mm)</b>	IEC 695-2-1	°C	960	960	960	650	650	850
<b>Oxygen Number</b>	ASTM D2863	%	43	30	34	25	–	25