

3FRP9C

Spiralwrap .5" Diameter - Flame Retardant Polyethylene, Natural, 100ft/reel

Article Number: 161-05049

Part Number: 3FRP9C

Type: 3FRP

Material: PEFR

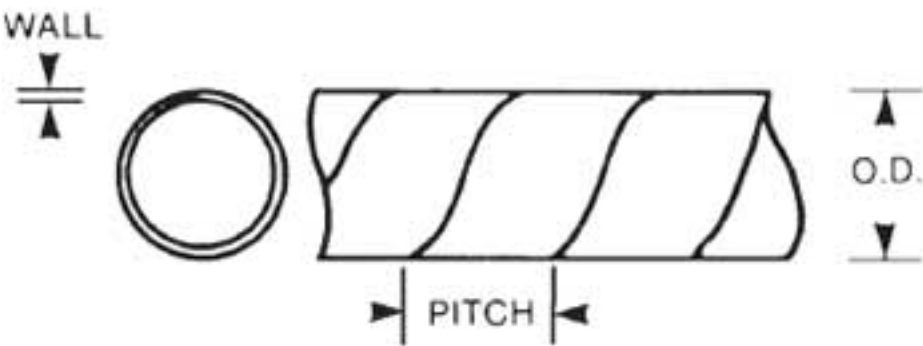


1. Base Data

Part No.	3FRP9C
Type	3FRP
Color	Natural
Features	Spiralwrap protective sheathing allows flexible routing and lead-out of cables. The inner edges are beveled to prevent damage to cables. U.L. Recognized Spiralwrap is reusable and resistant to most chemicals. Natural and black are standard colors (see m

Application	- Control Cabinet Doors: Protects cable from friction when one end of the cable is fastened within the panel and the other is fastened to the panel door. Allows flexibility and prevents wire chafing when door is opened and closed. - Robotics: Protect
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2. Product Dimensions



Min. Ø Bundle	.375 " / 9.52 mm
Max. Ø Bundle	4 " / 102 mm
Ø D	.5 " / 12.7 mm
Wall Thickness (WT)	.062 "
Wall Thickness	1.57 mm
Pitch	.563 " / 14.3 mm

4. Material and Specifications

Material	Polyethylene (PE-FR), flame-retardant
Material Shortcut	PEFR
Flammability	UL94 V0

Operating Temperature	-4 °F to +212 °F (-20 °C to +100 °C)
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ROHS Conformity	
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Logistic and Packaging

Packaging Type	reel
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Pkg. Qty.	100 ft / 30.48 m
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Carton Qty.	100
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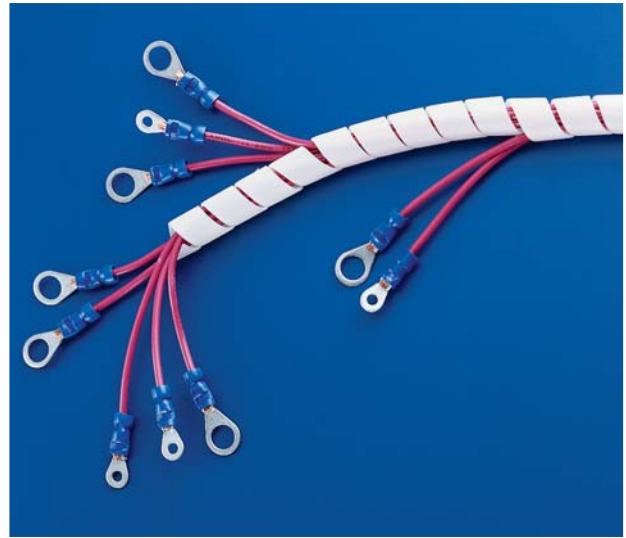
UPC	08930600214
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Miscellaneous

UL Recognized (US and Canada)	Yes
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Spiralwrap

Spiralwrap protective sheathing allows flexible routing and lead-out of cables. The inner edges are beveled to prevent damage to cables. U.L. Recognized Spiralwrap is reusable and resistant to most chemicals. Natural and black are standard colors (see material descriptions). Colors may be available dependent upon volume requirements. Contact HellermannTyton for more information.



Application

Control Cabinet Doors: Protects cable from friction when one end of the cable is fastened within the panel and the other is fastened to the panel door. Allows flexibility and prevents wire chafing when door is opened and closed.

Robotics: Protects hoses and wires during movement.

Pneumatic Hoses: Protects hoses from abrasion while on semi-trucks and other vehicles.

Spark Plug Wires: Lengthens the life of spark plug wires by reducing abrasion to wire insulation.

Installation

Spiralwrap can be installed in two basic ways:

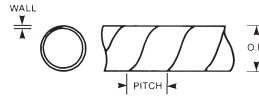
In a gapped installation, Spiralwrap is wrapped with space between the sheathing. This accommodates wire breakouts and also keeps the wire bundle flexible.

In a butted installation, Spiralwrap is wrapped so the sheathing completely insulates the wire bundle. This provides superior abrasion resistance and additional rigidity.

Polyethylene (PE)	Size					
	1/8"	1/4"	3/8"	1/2"	3/4"	1"
Color						
Brown (1)	X	X		X		
Red (2)	X		X	X	X	X
Orange (3)	X		X			
Yellow (4)	X	X	X	X	X	X
Green (5)	X	X	X			
Blue (6)	X	X	X	X	X	X
Purple (7)	X		X			
Gray (8)						
White (10)	X	X	X	X	X	X
Pink (15)			X			
DG Orange (DG3)	X	X	X	X	X	X
DG Yellow (DG4)			X			
DG Green (DG5)						
Glow in the Dark (DG9)			X			
DG Pink (DG15)		X	X			

All size/color combinations denoted with an "X" in the table above are available upon request. Contact HellermannTyton for pricing, part numbers, minimum order quantities and lead times. Additional size/color combinations may be available upon request. Contact your local HellermannTyton representative for pricing and minimums.

Cable Management Products

Spiralwrap *continued*

File # E147924

Product Selection														
Article No.	Part No.	Type	Ø D		Wall Thickness		Pitch		Min. Ø Bundle		Max. Ø Bundle		Color	Pkg. Qty.
			in. (mm)		in. (mm)		in. (mm)		in. (mm)		in. (mm)			
Natural Polyethylene (PE)														
161-05013	1NFP9C	1NFP	.125"	(3.18)	.032"	(.81)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Natural	100
161-05043	2NFP9C	2NFP	.250"	(6.35)	.045"	(1.14)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Natural	100
161-05027	2.5NFP9C	2.5NFP	.375"	(9.53)	.052"	(1.32)	.438"	(11.13)	.3125"	(7.92)	3"	(76.2)	Natural	100
161-05055	3NFP9C	3NFP	.5"	(12.7)	.062"	(1.57)	.563"	(14.3)	.375"	(9.52)	4"	(102)	Natural	100
161-05075	4NFP9C	4NFP	.750"	(19.05)	.065"	(1.65)	.750"	(19.05)	.750"	(19.10)	5"	(127)	Natural	100
161-05080	5NFP9C	5NFP	1"	(25.4)	.095"	(2.41)	1"	(25.4)	1"	(25.4)	7"	(178)	Natural	100
Black Polyethylene (PE)														
161-05004	1NFP0C	1NFP	.125"	(3.18)	.032"	(.81)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Black	100
161-05036	2NFP0C	2NFP	.250"	(6.35)	.045"	(1.14)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Black	100
161-05024	2.5NFP0C	2.5NFP	.375"	(9.53)	.052"	(1.32)	.438"	(11.13)	.3125"	(7.92)	3"	(76.2)	Black	100
161-05052	3NFP0C	3NFP	.5"	(12.7)	.062"	(1.57)	.5"	(12.7)	.375"	(9.52)	4"	(102)	Black	100
161-05074	4NFP0C	4NFP	.750"	(19.05)	.065"	(1.65)	.750"	(19.05)	.750"	(19.10)	5"	(127)	Black	100
161-05079	5NFP0C	5NFP	1"	(25.4)	.095"	(2.41)	1"	(25.4)	1"	(25.4)	7"	(178)	Black	100
Natural Polyethylene (PE), flame-retardant														
161-05001	1FRP9C	1FRP	.125"	(3.18)	.032"	(.81)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Natural	100
161-05030	2FRP9C	2FRP	.250"	(6.35)	.045"	(1.14)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Natural	100
161-05017	2.5FRP9C	2.5FRP	.375"	(9.53)	.052"	(1.32)	.438"	(11.13)	.3125"	(7.92)	3"	(76.2)	Natural	100
161-05049	3FRP9C	3FRP	.5"	(12.7)	.062"	(1.57)	.563"	(14.3)	.375"	(9.52)	4"	(102)	Natural	100
161-05058	4FRP9C	4FRP	.750"	(19.05)	.065"	(1.65)	.750"	(19.05)	.750"	(19.10)	5"	(127)	Natural	100
161-05077	5FRP9C	5FRP	1"	(25.4)	.095"	(2.41)	1"	(25.4)	1"	(25.4)	7"	(178)	Natural	100
Black Polyethylene (PE), flame-retardant														
161-05000	1FRP0C	1FRP	.125"	(3.18)	.032"	(.81)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Black	100
161-05029	2FRP0C	2FRP	.250"	(6.35)	.045"	(1.14)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Black	100
161-05016	2.5FRP0C	2.5FRP	.375"	(9.53)	.052"	(1.32)	.438"	(11.13)	.3125"	(7.92)	3"	(76.2)	Black	100
161-05048	3FRP0C	3FRP	.5"	(12.7)	.062"	(1.57)	.563"	(14.3)	.375"	(9.52)	4"	(102)	Black	100
161-05057	4FRP0C	4FRP	.750"	(19.05)	.065"	(1.65)	.750"	(19.05)	.750"	(19.10)	5"	(127)	Black	100
161-05084	5FRP0C	5FRP	1"	(25.4)	.095"	(2.41)	1"	(25.4)	1"	(25.4)	7"	(178)	Black	100
Natural Polyamide 6 (PA6)														
161-05003	1N9C	1N	.125"	(3.18)	.015"	(.38)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Natural	100
161-05034	2N9C	2N	.250"	(6.35)	.0250"	(.64)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Natural	100
161-05019	2.5N9C	2.5N	.375"	(9.53)	.035"	(.89)	.438"	(11.13)	.3125"	(7.92)	3"	(76.2)	Natural	100
161-05051	3N9C	3N	.5"	(12.7)	.035"	(.89)	.500"	(12.7)	.375"	(9.52)	4"	(102)	Natural	100
161-05072	4N9C	4N	.750"	(19.05)	.032"	(.81)	.750"	(19.05)	.5"	(12.7)	5"	(127)	Natural	100
161-05085	5N9C	5N	1"	(25.4)	.032"	(.81)	1"	(25.4)	1"	(25.4)	7"	(178)	Natural	100
Black Polyamide 6 (PA6)														
161-05002	1N0C	1N	.125"	(3.18)	.015"	(.38)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Black	100
161-05032	2N0C	2N	.250"	(6.35)	.025"	(.64)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Black	100
161-05018	2.5N0C	2.5N	.375"	(9.53)	.035"	(.89)	.438"	(11.13)	.3125"	(7.92)	3"	(76.2)	Black	100
161-05050	3N0C	3N	.5"	(12.7)	.035"	(.89)	.50"	(12.7)	.375"	(9.52)	4"	(102)	Black	100
161-05071	4N0C	4N	.750"	(19.05)	.032"	(.81)	.750"	(19.05)	.50"	(12.7)	5"	(127)	Black	100
161-05078	5N0C	5N	1"	(25.4)	.032"	(.81)	1"	(25.4)	1"	(25.4)	7"	(178)	Black	100
Natural Polytetrafluoroethylene -Teflon (PTFE)														
161-05015	1P9C	1P	.125"	(3.18)	.020"	(.76)	.187"	(4.75)	.0625"	(1.60)	.50"	(12.7)	Natural	100
161-05047	2P9C	2P	.250"	(6.35)	.030"	(.76)	.375"	(9.53)	.1875"	(4.75)	2"	(50.8)	Natural	100
161-05028	2.5P9C	2.5P	.375"	(9.53)	.030"	(.76)	.438"	(11.13)	.3125"	(7.92)	2.5"	(63.5)	Natural	100
161-05056	3P9C	3P	.5"	(12.7)	.030"	(.76)	.5"	(12.7)	.375"	(9.52)	3"	(76.2)	Natural	100
161-05076	4P9C	4P	.750"	(19.05)	.032"	(.81)	.750"	(19.05)	.5"	(12.7)	4"	(102)	Natural	100
161-05081	5P9C	5P	1"	(25.4)	.040	(1.02)	1"	(25.4)	.750"	(19.10)	5 "	(127)	Natural	100

Teflon is a registered trademark of the DuPont Corporation. Dimensions are approximate and subject to technical changes. Use **Part No.** for ordering and **Type** for specification purposes.

Spiralwrap *continued*

Material Data

Material	Operating Temperature	Abrasion Resistance	Specific Gravity D792-66	Effect of Solvents	Effect of Acids	Effect of Alkalies	Water Absorption	Flammability	Mil. Spec & Approvals
RoHS Polyethylene (PE)	Polyethylene is ideal for general applications that are not affected by ordinary solvents. Available in colors. Ultraviolet resistant black polyethylene is for outdoor use. It has the same qualities as clear polyethylene, but also contains an ultraviolet absorber which permits it to be used in direct sunlight for long periods of time. Available by special order in gray.								
Natural Polyethylene (PE)	-76°F to +190°F (-60°C to +88°C)	22	0.92	None below 122°F (50°C)	None	None	0.014	Flammable	Fed. Spec. LP390
Black Polyethylene (PE)	-76°F to +190°F (-60°C to +88°C)	20	0.93	None below 122°F (50°C)	None	None	0.03	Flammable	MIL I-631D MIL P-21922A Fed. Spec. LP390
RoHS Polyethylene (PE), flame-retardant	Suitable for applications requiring a self-extinguishing material. Lower cost than polyamide 6 or teflon materials. Note: Natural color is milky white.								
Natural Polyethylene (PE), flame-retardant	-4°F to +176°F (-20°C to + 80°C)	27	1.29	None below 122°F (50°C)	None	None	0.02	94V-1	
Black Polyethylene (PE), flame-retardant	-4°F to +176°F (-20°C to + 80°C)	27	1.29	None below 122°F (50°C)	None	None	0.02	94V-1	
RoHS Polyamide 6 (PA6)	Natural polyamide 6 is recommended for use in enclosed environments where the possibility of fire exists. Self-extinguishing. Does not produce any toxic or irritation, even when exposed to open flame or excessive temperatures. Polyamide 6 is six times as strong as polyethylene. Black polyamide 6 features the same properties as natural polyamide 6 with the added benefit of an ultraviolet absorber so that it can be used in direct sunlight for long periods of time.								
Natural Polyamide 6 (PA6)	-40°F to +250°F (-40°C to +121°C)	6-8	1.14	None	Satisfactory except for strong acids	None	1.5	Self Extinguishing	MIL M-20693B Type I MIL M-22096A LP 410A MIL M-19098
Black Polyamide 6 (PA6)	-40°F to +250°F (-40°C to +121°C)	6-8	1.14	None	Satisfactory except for strong acids	None	1.5	Self Extinguishing	MIL M-206393A Type II MIL M-22096 LP 410A MIL T-47287A Type II AS 1294
RoHS Polytetrafluoroethylene -Teflon (PTFE)	Polytetrafluoroethylene -Teflon (PTFE) offers the widest operating temperature range of any material. It's chemically inert and non-flammable. Natural color is milky white, available with special order in black and colors.								
Natural Polytetrafluoroethylene -Teflon (PTFE)	-450°F to +500°F (-268°C to +260°C)	7	2.1	None	None	None	0.05	Non-flammable	AMS 3651C AMS 3653C AMS 3654 AMS 3655 ASTM D3295 MIL I-22129C P-22296B MIL T-47287A Type I AS 1294

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