

# FPHS Series

## Polyolefin Heat Shrink Tubing

**multicomp** PRO



### Description:

The FPHS series heat shrink tubing offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. FPHS is made of very flexible, heat-shrinkable polyolefin which is mechanically tough and chemically resistant.

### Specifications:

Shrink Ratio	: 3:1
Colour	: Black
Shrink Temperature	: 100°C(212°F)

### Typical Properties:

#### Physical

Tensile Strength	: 2,600 PSI
Ultimate Elongation	: 400%
Longitudinal Change	: ±5%
Secant Modulus (2%)	: 8,700 PSI
Specific Gravity	: 1.29
Heat Aging (168 hrs @ 158°C)	: Elongation (350%)
Heat Shock (4 hrs @ 250°C)	: No dripping, (4 hrs @ 250°C) cracking, or flowing
Low Temperature Flexibility (4 hrs @ -55°C)	: No Cracking
Water Absorption	: 0.2%
Flammability	: Self extinguishing
Operating Temperature	: -55°C to +135°C (-67°F to +275°F)
*Flexibility	: 3

#### Electrical

Dielectric Strength	: 700V/mil
Volume Resistivity	: 10 <sup>15</sup> Ω-cm

#### Chemical

Corrosive Effect	: Non-corrosive
Solvent Resistance	
Tensile Strength	: 1,100 PSI
Dielectric Strength	: 400V/mil
Fungus Resistance	: Inert

Applicable Specifications: MIL-DTL-23053/5 Class 1

\*Flexibility : The materials are rated on a scale of 1 to 10.  
1 = most flexible and 10 = most rigid

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### Dimension Table

Dimensions				Standard Packages		
Size (Inches)	Expanded I.D. (Min.) (Inches)	Recovered I.D. (Max.) (Inches)	Recovered Nominal Wall Thickness (Inches)	4 Foot Lengths (+1", -0")		
				Total Footage	QTY.	Part Number
1/16	0.059	0.02	0.018	100 FT	25	FPHS-004-4025-BLK
1/8	0.118	0.039	0.022			FPHS-008-4025-BLK
1/4	0.236	0.079	0.026			FPHS-016-4025-BLK
3/8	0.354	0.118	0.03			FPHS-024-4025-BLK
1/2	0.472	0.157	0.03	20 FT	5	FPHS-032-4005-BLK
3/4	0.709	0.236	0.03			FPHS-048-4005-BLK
1	0.945	0.315	0.039			FPHS-064-4005-BLK
1-1/2	1.535	0.512	0.045			FPHS-096-4005-BLK

Dimensions				Standard Packages		
Size (Inches)	Expanded I.D. (Min.) (Inches)	Recovered I.D. (Max.) (Inches)	Recovered Nominal Wall Thickness (Inches)	6 Inch Lengths (±125")		
				Total Footage	QTY.	Part Number
1/16	0.059	0.02	0.018	14 FT	28	FPHS-004-6028
1/8	0.118	0.039	0.022	12 FT	24	FPHS-008-6024
1/4	0.236	0.079	0.026	10 FT	20	FPHS-016-6020
3/8	0.354	0.118	0.03	8 FT	16	FPHS-024-6016
1/2	0.472	0.157	0.03	7 FT	14	FPHS-032-6014
3/4	0.709	0.236	0.03	6 FT	12	FPHS-048-6012
1	0.945	0.315	0.039	4 FT	8	FPHS-064-6008
1-1/2	1.535	0.512	0.045	2.5 FT	5	FPHS-096-6005

### Part Number Table

Description	Part Number
FPHS Series Polyolefin Heat Shrink Tubing 4 Foot Lengths	FPHS-004-4025-BLK
	FPHS-008-4025-BLK
	FPHS-016-4025-BLK
	FPHS-024-4025-BLK
	FPHS-032-4005-BLK
	FPHS-048-4005-BLK
	FPHS-064-4005-BLK
	FPHS-096-4005-BLK

Description	Part Number
FPHS Series Polyolefin Heat Shrink Tubing 6 Inch Lengths	FPHS-004-6028
	FPHS-008-6024
	FPHS-016-6020
	FPHS-024-6016
	FPHS-032-6014
	FPHS-048-6012
	FPHS-064-6008
	FPHS-096-6005

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