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Jameco Part Number 419186

FIT® Preferred Heat Shrink Products

GENERAL PURPOSE, IRRADIATED POLYOLEFIN

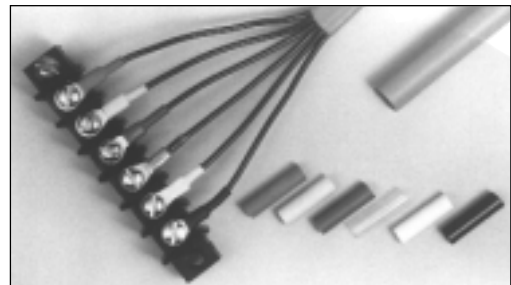
FIT®-221

MIL-DTL-23053/5C,
CLASS 1, 2
UL STANDARD 224
CSA STANDARD 198

CHOOSE **FIT**®-221 FOR:

- General Purpose Protection and Repair
- Identification and Beautifying Substrates
- Insulation from Environment
- Reduced Longitudinal Shrinkage
- Resistance to Water, Fungus, UV Light (black only)
- Use with **XTRA•GUARD**® 1

2 TO 1 SHRINK RATIO



FIT®-221 APPLICATIONS:

- General Purpose Insulation and Repair
- Wire and Cable Harnessing and Bundling
- Cable and Connector Protection
- Wire and Tubing Splicing and Connecting
- **XTRA•GUARD**® 1 Applications
- Automated Cutting Machines (spools)

CHARACTERISTICS

OPERATING TEMPERATURE:

- -55°C to 135°C

SHRINKAGE RATIO:

- Approximately 2 to 1 at 121°C

COLOR DESCRIPTION:

- 4-Foot Lengths:
3/64 to 2 Inch – Black, White, Clear, Red, Yellow, Blue, Green
3 and 4 Inch – Black, Clear
- 6-Inch Lengths:
3/64 to 1 Inch – Black, White, Clear, Red, Yellow, Blue, Green
1-1/2 to 3 Inch – Black, Clear
- 1/2 or 1 Inch Cut Pieces: Black
- Spools: See Color Availability Chart Next Page

PHYSICAL PROPERTIES:

- Tensile Strength: 1500 psi, (106 kg/cm²)
- Ultimate Elongation: 200%
- Longitudinal Shrinkage: -5%
- Specific Gravity: 1.35
- Secant Modulus: 2.5 x 10⁴ max.
- Flammability: Self-Extinguishing

CHEMICAL PROPERTIES:

- Corrosive Effect: Passes Copper Stability Test
- Fungus Resistance: No Growth

ELECTRICAL PROPERTIES:

- Dielectric Strength: 500V/mil (197 kV/cm)
- Volume Resistivity: 10¹⁴ ohm-cm

SPECIFICATIONS

- MIL-DTL-23053/5C, Class 1, 2
- UL Standard 224 (except for Clear)
- CSA Standard 198 (except for Clear)

Recognized Component
Underwriters Laboratories Inc.

Certified
Canadian Standards Association

Packaged Assortments		
Assorted Sizes of 6" Lengths		
Each Length – Size Identified		
Assorted Colors		
Alpha Part No.	Tubing Size Range	Lengths Per Box
FIT -221-MS-1	3/64" – 3/16" (5 Sizes)	6 per Size (30 Lengths)
FIT -221-MS-2	1/4" – 3/4" (4 Sizes)	4 per Size (16 Lengths)

Recommended For Use With
XTRA•GUARD® 1
Extra-Premium Grade PVC Jacketed
General Purpose Cables



Toll Free: 1-800-52 ALPHA • Telephone: 908-925-8000 • Fax: 908-925-6923
Europe/UK Telephone: +44 (0) 1932 772422 • Europe/UK Fax: +44 (0) 1932 772433

Web Site: www.alphawire.com
Email: info@alphawire.com

Alpha Part No. And Size	Minimum Supplied I.D.		Maximum Recovered I.D.		Nom. Recovered Wall Thickness		4 Ft. Lengths Total Ftg.	Standard Packages				
	Inches	mm	Inches	mm	Inches	mm		Spools		No. Cut Pieces 6 Inch	No. Cut Pieces 1/2" or 1"	
FIT-221-3/64	0.046	1,17	0.023	0,58	0.016	0,41	100	1000			40	1000
FIT-221-1/16	0.063	1,60	0.031	0,78	0.017	0,43	100	1000	100	70	36	1000
FIT-221-3/32	0.093	2,36	0.046	1,17	0.020	0,50	100	500	100	65	32	1000
FIT-221-1/8	0.125	3,18	0.062	1,58	0.020	0,50	100	500	100	60	28	1000
FIT-221-3/16	0.187	4,75	0.093	2,36	0.020	0,50	100	500	100	50	24	1000
FIT-221-1/4	0.250	6,35	0.125	3,18	0.025	0,63	100	250	100	40	20	1000
FIT-221-3/8	0.375	9,53	0.187	4,75	0.025	0,63	100	200	50	35	16	1000
FIT-221-1/2	0.500	12,70	0.250	6,35	0.025	0,63	20	150	50	32	14	--
FIT-221-3/4	0.750	19,10	0.375	9,53	0.030	0,76	20	250	50	24	12	--
FIT-221-1	1.000	25,40	0.500	12,70	0.035	0,88	20	250	50	16	8	--
FIT-221-1-1/2	1.500	38,10	0.750	19,10	0.040	1,02	20	125	--	--	5	--
FIT-221-2	2.000	50,80	1.000	25,40	0.045	1,16	20	125	--	--	3	--
FIT-221-3	3.000	76,20	1.500	38,10	0.050	1,27	8	100	--	--	2	--
FIT-221-4	4.000	101,60	2.000	50,80	0.055	1,40	8	50	--	--	1	--

SPOOL COLOR AVAILABILITY CHART

FIT-221 Tubing Size	Put-Up	Colors
3/64"	1000'	Black, Clear
1/16"	1000'	All Colors*
	100'	Black, Clear
3/32"	70'	All Colors
	500'	All Colors
	100'	Black, Clear
1/8"	65'	All Colors
	500'	All Colors
	100'	Black, Clear
3/16"	60'	All Colors
	500'	All Colors
	100'	Black, Clear
1/4"	50'	All Colors
	250'	All Colors
	100'	Black, Clear
	40'	All Colors

FIT-221 Tubing Size	Put-Up	Colors
3/8"	200'	All Colors
	50'	Black, Clear
1/2"	35'	All Colors
	150'	All Colors
	50'	Black, Clear
3/4"	32'	All Colors
	250'	All Colors
	50'	Black, Clear
1"	24"	All Colors
	250'	All Colors
1-1/2"	50"	Black, Clear
	16"	All Colors
2"	125'	Black, Clear
3"	100'	Black, Clear
4"	50'	Black, Clear

*All colors include black, white, clear, red, yellow, blue, green

**SEE PAGE 116
FOR
ECONOMICAL BULK PACKAGES!**

**CHOOSE
 FIT-221B FOR:**

- General Purpose Protection and Repair
- Identification and Beautifying Substrates
- Insulation from Environment
- Reduced Longitudinal Shrinkage
- Resistance to Water, Fungus, UV Light (black only)
- Use with **XTRA•GUARD® 1**

**FIT-221B
 APPLICATIONS:**

- General Purpose Insulation and Repair
- Wire and Cable Harnessing and Bundling
- Cable and Connector Protection
- Wire and Tubing Splicing and Connecting
- **XTRA•GUARD® 1** Applications
- Automated Cutting Machines (spools)



CHARACTERISTICS

OPERATING TEMPERATURE:

- -55°C to 135°C

SHRINKAGE RATIO:

- Approximately 2 to 1 at 121°C

COLOR DESCRIPTION:

- All Bulk Packages: Black, Clear

PHYSICAL PROPERTIES:

- Tensile Strength: 1500 psi, (106 kg/cm²)
- Ultimate Elongation: 200%
- Longitudinal Shrinkage: -5%
- Specific Gravity: 1.35
- Secant Modulus: 2.5 x 10⁴ max.
- Flammability: Self-Extinguishing

CHEMICAL PROPERTIES:

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- Dielectric Strength: 500V/mil (197 kV/cm)
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- UL Standard 224 (except for Clear)
- CSA Standard 198 (except for Clear)

UL Recognized Component
 Underwriters Laboratories Inc.

CSA Certified
 Canadian Standards Association

Alpha Part No. and Size	Minimum Supplied I.D.		Maximum Rec. I.D.		Nom. Rec. Wall Thickness		NEW BULK PACKAGES				
	Inches	mm	Inches	mm	Inches	mm	Qty. in Box	Total Spool Size	Total Ftg.	No. of Pcs.	Total Ftg.
FIT-221B-3/64	0.046	1,17	0.023	0,58	0.016	0,41	3x1000	3000	250x4	1000	
FIT-221B-1/16	0.063	1,60	0.031	0,78	0.017	0,43	3x1000	3000	250x4	1000	
FIT-221B-3/32	0.093	2,36	0.046	1,17	0.020	0,50	3x500	1500	250x4	1000	
FIT-221B-1/8	0.125	3,18	0.062	1,58	0.020	0,50	3x500	1500	250x4	1000	
FIT-221B-3/16	0.187	4,75	0.093	2,36	0.020	0,50	2x500	1000	250x4	1000	
FIT-221B-1/4	0.250	6,35	0.125	3,18	0.025	0,63	2x250	500	250x4	1000	
FIT-221B-3/8	0.375	9,53	0.187	4,75	0.025	0,63	2x200	400	250x4	1000	
FIT-221B-1/2	0.500	12,70	0.250	6,35	0.025	0,63	2x150	300	200x4	800	
FIT-221B-3/4	0.750	19,10	0.375	9,53	0.030	0,76	1x250	250	125x4	500	
FIT-221B-1	1.000	25,40	0.500	12,70	0.035	0,88	1x250	250	75x4	300	

2 TO 1 SHRINK RATIO

**Recommended For Use With
 XTRA•GUARD® 1
 Extra-Premium Grade PVC Jacketed
 General Purpose Cables**

