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Jameco Part Number 419119

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

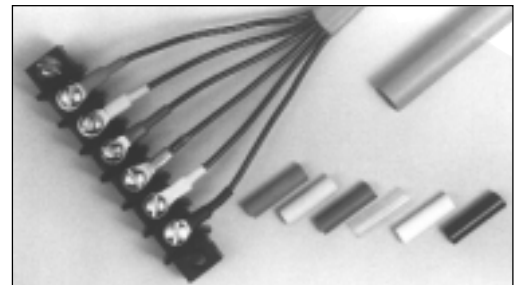
- MIL-DTL-23053/5C, Class 1, 2
- UL Standard 224 (except for Clear)
- CSA Standard 198 (except for Clear)



Underwriters Laboratories Inc.



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

Alpha Part No. And Size	Minimum Supplied I.D.		Maximum Recovered I.D.		Nom. Recovered Wall Thickness		4 Ft. Lengths Total Ftg.	Standard Packages Spools		No. Cut Pieces 6 Inch	No. Cut Pieces 1/2" or 1"
	Inches	mm	Inches	mm	Inches	mm		Tot. Ftg.	Tot. Ftg.		
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
	65'	All Colors
1/8"	500'	All Colors
	100'	Black, Clear
	60'	All Colors
3/16"	500'	All Colors
	100'	Black, Clear
	50'	All Colors
1/4"	250'	All Colors
	100'	Black, Clear
	40'	All Colors

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

FIT® Preferred Heat Shrink Products

ECONOMICAL **FIT**®-221 BULK PKGS., IRRADIATED POLYOLEFIN

FIT®-221B

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

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:

- 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)

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			
							SPOOLS		4 FT. LENGTHS	
	Inches	mm	Inches	mm	Inches	mm	Qty. in Box	Total Spool Size	Total Ftg.	No. of Pcs.
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



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