FLEXIBLE IRRADIATED PVC

FIT®-105

MIL-I-23053/2C, CLASS 1*
UL STANDARD 224
CSA STANDARD 198

CHOOSE FIT®-105 FOR:

- Low Shrink Temperature (100°C)
- 30% Stronger than Standard Polyolefin
- UL VW-1 and CSA OFT Flame Retardancy
- Low Water Absorption and UV Resistant
- Multiple Package Availability

2 TO 1 SHRINK RATIO



FIT®-105 APPLICATIONS:

- Use with PVC Cable
- With Heat Sensitive Substrates
- Fast Recovery Time
- Wire Harnesses and Cable Assemblies
- Flame Retardant Requirements
- **XTRA•**GUARD® **1** Applications
- Automated Cutting Machines (spools)

Alpha Part No. and Size	Minimum Supplied I.D. Inches	Minimum Supplied I.D. mm	Maximum Rec. I.D. Inches	Maximum Rec. I.D. mm	Nom. Rec. Wall Thickness Inches	Nom. Rec. Wall Thickness mm	Spools Tot. Ftg.	Spools Tot. Ftg.	Spools Tot. Ftg.	Spools Tot. Ftg.
FIT-105-3/64	0.046	1,17	0.023	0,58	0.020	0,50	1000	500	100	25
FIT-105-1/16	0.062	1,58	0.031	0,78	0.020	0,50	1000	500	100	25
FIT-105-3/32	0.093	2,36	0.046	1,17	0.020	0,50	1000	100	25	
FIT-105-1/8	0.125	3,18	0.062	1,58	0.025	0,63	1000	100	25	
FIT-105-3/16	0.187	4,75	0.093	2,36	0.025	0,63	1000	100	25	
FIT-105-1/4	0.250	6,35	0.125	3,18	0.025	0,63	1000	100	25	
FIT-105-3/8	0.375	9,53	0.187	4,75	0.030	0,76	500	100	25	
FIT-105-1/2	0.500	12,70	0.250	6,35	0.030	0,76	250	100	25	
FIT-105-3/4	0.750	19,10	0.375	9,53	0.035	0,88	250	100	25	
FIT-105-1	1.000	25,40	0.500	12,70	0.040	1,02	250	100	25	
FIT-105-1-1/2	1.500	38,10	0.750	19,10	0.045	1,14	100	25		
FIT-105-2	2.000	50,80	1.000	25,40	0.050	1,27	100	50	25	

CHARACTERISTICS

OPERATING TEMPERATURE:

- –20°C to 105°C

SHRINKAGE RATIO:

- Approximately 2 to 1 at 100°C

COLOR DESCRIPTION:

- All Standard Packages: Black (White Available in Certain Sizes)

PHYSICAL PROPERTIES:

- Tensile Strength: 2000 psi, (141 kg/cm²)
- Ultimate Elongation: 200%
- Longitudinal Shrinkage: –15%†
- Specific Gravity: 1.40
- Flammability: Self-Extinguishing (UL VW-1, CSA OFT)

CHEMICAL PROPERTIES:

- Corrosive Effect: Meets Requirements of MIL-I-631
- Fungus Resistance: No Growth (MIL-I-7444)
- Water Absorption: 0 to 1% Max. 24 Hrs. at 25°C

ELECTRICAL PROPERTIES:

- Dielectric Strength: 400V/mil (158 kV/cm)
- Volume Resistivity: 10^{11} ohm-cm

Packaged Assortments
Assorted Sizes of 6" Lengths
Each Length – Size Identified

Alpha Part No.	Tubing Size Range	Lengths Per Box
FIT-105-MS-1	3/64" – 1/4" (6 Sizes)	10 Lengths Per Size (60 Lengths)
FIT-105-MS-2	3/8" – 1" (4 Sizes)	10 Lengths Per Size (40 Lengths)

SPECIFICATIONS

- MIL-I-23053/2C, Class 1*
- UL Standard 224
- CSA Standard 198
- Passes UL VW-1 Flame Test
- Passes CSA OFT Flame Test

Recognized Component — Underwriters Laboratories Inc.
Passes UL VW-1 Flame Test — Underwriters Laboratories Inc.
Certified — Canadian Standards Association

*Military Specification Sheet MIL-I-23053/2C, is inactive for new design and is no longer used by the Department of Defense except for replacement purposes.
†Does not meet MIL-I-23053/2C requirements.

alpha
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