SPECIALTY MATERIALS

	Features & Benefits	Applications	Characteristics
FIT®-105 **Irradiated PVC** MIL-I-23053/2C, Class 1 CSA OFT Flame Test Recognized Component Underwriters Laboratories Inc. Certified Canadian Standards Association Passes UL VW-1 Flame Test Underwriters Laboratories Inc.	• Low shrink temperature (100°C) • 30% stronger than standard polyolefin • UL VW-1 & CSA OFT flame retardancy • Low water absorption & UV resistant • Extended shelf life • Multiple package availability	• Use with PVC cable • With heat sensitive substrates • Fast recovery time • Wire harnesses & cable assemblies • Flame retardant requirements • **XTRA•**GUARD® **1** applications • Automated cutting machines (spools)	• Shrink Ratio: 2:1 @ 100°C • Temperature: –35°C to +105°C • Longitudinal Shrinkage: 10% • Size: 3/64" – 2 in • Packages: 4ft lengths, spools & cut pieces • Colors: Black
FIT®-350 **Extra Strong, Flame Retardant Kynar**** MIL-I-23053/8B CSA OFT Flame Test Recognized Component Underwriters Laboratories Inc. Certified Canadian Standards Association Passes UL VW-1 Flame Test Underwriters Laboratories Inc.	• Chemical resistance • Almost 3 times the tensile strength of standard polyolefin • Excellent flame retardancy • Excellent heat resistance • Reduced shrink temperature	• High temperature environments • Faster recovery time than Teflon* • Exposure to chemicals • Use with high temperature wire • Caustic environments • **XTRA•**GUARD® **4** applications	• Shrink Ratio: 2:1 @ 175°C • Temperature: –55°C to +175°C • Longitudinal Shrinkage: 10% • Size: 3/64" – 1 in • Packages: 4ft lengths & cut pieces • Colors: Transparent
FIT®-400 **Temperature/Chemical Resistant FEP Teflon*** MIL-I-23053/11B	• Excellent chemical resistance • Extreme temperature range of –67°C to +204°C • More than twice the strength of standard polyolefin • Unmatched dielectric properties • Thinnest wall thickness available • Lower recovery temp than TFE Teflon*	• Fiber optic applications • High temperature cable • Limited space applications • **XTRA•**GUARD® **4 & 5** applications • Digital electronics (signal sensitive equip.) • Extremely caustic environments • Fast recovery time • Data & FEP Teflon* cable applications	• Shrink Ratio: 1.2:1 @ 176°C • Temperature: –67°C to +204°C • Longitudinal Shrinkage: 10% • Size: 0.03" – 0.44" (24AWG-0AWG) • Packages: 4ft lengths & 2ft lengths • Colors: Naturally Clear
FIT®-500 **Temperature/Chemical Resistant TFE Teflon*** MIL-I-23053/12B, Class 3	• Supreme chemical resistance • Most extreme temperature range of –67°C to +260°C • Among the highest tensile strength available (6000psi) • Unmatched dielectric properties • Extremely thin wall thickness • Low friction coefficient	• Fiber optic applications • TFE Teflon* cable applications • Limited space applications • Digital electronics (signal sensitive equip.) • Extremely caustic environments	• Shrink Ratio: 1.5:1 @ 327°C • Temperature: –65°C to +260°C • Longitudinal Shrinkage: 10% • Size: 0.034" – 0.047" (30AWG-0AWG) • Packages: 2ft lengths • Colors: Naturally Transparent
FIT®-600 **Highly Flexible, Irradiated Elastomer** MIL-I-23053/1B, Class 2† MIL-R-46846 Type 1, Class 1† CSA OFT Flame Test Recognized Component Underwriters Laboratories Inc. Certified Canadian Standards Association Passes UL VW-1 Flame Test Underwriters Laboratories Inc.	• Improved flexibility • Twice the tensile strength of silicone rubber • Reduced longitudinal shrinkage • Large tubing diameters • Oil resistance & flame retardancy • Abrasion resistance	• Military & commercial harnesses • Moderate flexing at mild temperatures • Cold temperature flexing • Expansion & contraction compensation • Machine tool & automation equipment • **XTRA•**GUARD® **4** applications • **XTRA•**GUARD® **Flexible Cable** applications	• Shrink Ratio: 1.75:1 @ 135°C • Temperature: –70°C / +121°C • Longitudinal Shrinkage: 6% • Size: 1/4" – 3in • Packages: Spools • Colors: Black
FIT®-650 **Chemical and Temperature Resistant Viton** MIL-I-23053/13A	• Extreme temperatures –40°C to +200°C • Excellent chemical resistance (water, oil, acid & fuels) • Immersion in fluids or chemicals • Flexibility	• Chemical production applications • Military electronics/aircraft • In hostile environments requiring some flexibility • **XTRA•**GUARD® **5** applications • **XTRA•**GUARD® **Flexible Cable** applications	• Shrink Ratio: 2:1 @ 175°C • Temperature: –40°C to +200°C • Longitudinal Shrinkage: 20% • Size: 1/8" – 1 in • Packages: Spools • Colors: Black
FIT® FLEX **Highly Flexible, Irradiated Silicone Rubber** ASTM-D 2240 & 2671 Recognized Component Underwriters Laboratories Inc. Passes UL VW-1 Flame Test Underwriters Laboratories Inc.	• Highest flexibility available • Flexibility in widest temperature range, –75°C to +200°C • Expansion & contraction compensation • Scrape abrasion resistance • Pliability when substrate requires "give" • Flame retardancy	• Robotics cables • Automation equipment dressing • Environments with varied temperatures • **XTRA•**GUARD® **Flexible Cable** applications • Fiber optic cable bundles • Assemblies & harnesses requiring flexibility	• Shrink Ratio: 1.7:1 @ 135°C • Temperature: –75°C to +200°C • Longitudinal Shrinkage: 15% • Size: 0.112" – 1.217" • Packages: Spools • Colors: Gray

*Teflon® is a registered trademark of E.I. DuPont Co.
**Kynar is a trademark of T.M. Pennwalt

†FIT-600 does not contain any polychloroprene/neoprene but meets the physical properties of MIL-I-23053/1B, Class 2 and MIL-R-46846 Type 1, Class 1 specifications.