ESSENTRA COMPONENTS

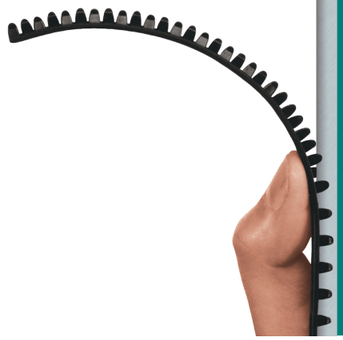
New product introduction

SPRING-FAST® GROMMET EDGING



SPRING-FAST® GROMMET EDGING

Spring-Fast® Grommet Edging protects wires and cables from chafing and arcing on a wide range of panel thicknesses. The encapsulated stainless steel core outperforms plastic grommets for superior performance in harsh environments. Installs easily in seconds with just finger pressure, eliminating the use of glue and reducing workflow steps to save time and money.



Why choose **Spring-Fast®** Grommet Edging?

- Installs without adhesives
- Push-on installation in seconds
- Protects cables from abrasion and edge damage
- Stainless steel core for secure retention
- Suitable for harsh industrial environments
- Available for multiple panel thicknesses
- Replaces:
  - Adhesive-backed edge trim
  - Rubber grommets
  - Plastic edge protectors
  - Snap-on edge guards

KEY BENEFITS

49% installed cost savings	9.5x productivity enhancement	Best in class protection	Improves work environment without VOC's

COMMON APPLICATIONS & INDUSTRIES

- Data centers
- Aerospace
- Telecom infrastructure
- Control panels
- Electrical enclosures
- Industrial automation
- Transportation equipment
- Power distribution systems



COMPLIANCE

cULus
RoHS
REACH

SPRING-FAST® GROMMET EDGING



General Edge Protection



Extra Flexible



Flush Edge Protection



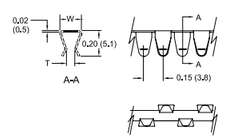
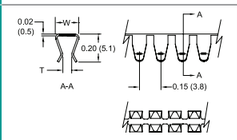
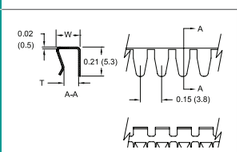
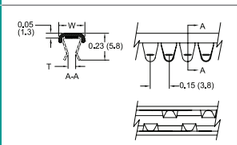
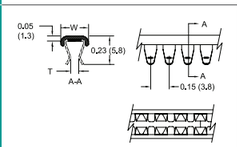
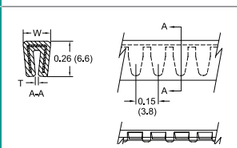
Cushioned Edge Protection



Extra Flexible with Cushion



Fully Encapsulated

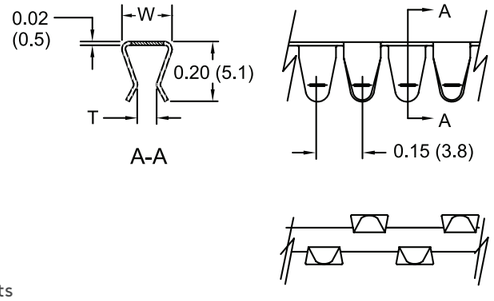
Series	Profile	Axis Conformity	Cushion	Vicat Softening Point	Flexibility	Operating Temperature Range	Dielectric Strength Volts	Taber Abrasion Resistance	Finish (End Code)	Corrosion
T		2 Axis	No	Substrate Finish: ISO306 356°F (180°C)	Standard	-40°F to 285°F (-40°C to 140°C)	1000	Nylon per NFT 30-015	Nylon Black (02) FDA White (04) Epoxy Green (06) Additional Colors Available on Special Order	2000 Salt Spray Hours
AP		Multi	No		High					
FM		Multi	No		High					
BT		2 Axis	Yes		Standard	-40°F to 185°F (-40°C to 85°C)	1500		TPE Cushion Black (01) Gray (02)	
BAP		Multi	Yes	TPE Cushion: ISO306 30°F (110°C)	High			TPE Cushion per D1044		
SL		Multi	Yes		Highest	-67°F to 203°F (-55°C to 95°C)	2000		TPE Encapsulation Black (01)	3000 Salt Spray Hours

- Stainless Steel substrate
- Coated with abrasion resistant nylon thermoplastic
- Flammability Rating: UL94 V-0 • MIL-STD-202F FAR 25.853A • Telcordia GR-63-CORE
- Compliant to: RoHS | REACH | EWIS | FAR 25.853
- Immersion: Per NASM22529 and Skydol Compatible
- Random Shock and Vibration: MIL-STD-1344
- Fabrication Options: Factory pre-cut lengths Bulk or private branded kits • Roll-Fast™ installation tool Bench mounted cut-off press
- For use on a wide range of panel thicknesses
- Eliminates adhesives

T Series
Spring-Fast® Standard Wire Protection Grommet Edging
Non-cushioned, Low Profile

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: Abrasion Resistant Nylon Thermoplastic
- Color: Black
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 285°F (-40°C to 140°C)
- RoHS, REACH, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1000 volts
- Resistant to hydrocarbons, immersion, salt spray, shock and vibration
- Salt Spray Test: 2000 hours
- Taber Abrasion Resistant Nylon per NFT 30-015
- Random Shock and Vibration MIL-STD-1344

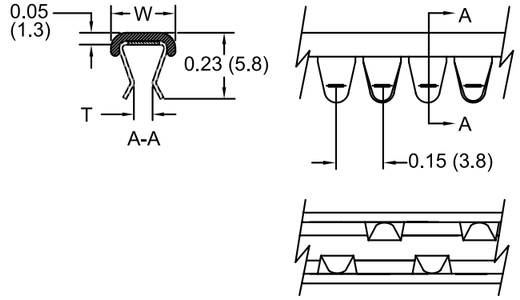
Features:
- General enclosure wire routing
- Lowest profile (size) non-cushioned grommet
- Snaps on fast with finger pressure; installs continuously with two axis conformity
- For straight edges, inside corners, and sharp outside corners, including right angled corners
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- Ideal for use on control panels and cable pass-throughs

Item No. Roll Length		Panel Thickness (T)		Width (W)	
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21070921	21071010	0.020 - 0.030	0.5 - 0.8	0.130	3.3
21070938	10160633	0.029 - 0.045	0.7 - 1.1	0.130	3.3
21070945	10160640	0.044 - 0.056	1.1 - 1.4	0.130	3.3
21070952	10160657	0.055 - 0.069	1.4 - 1.8	0.130	3.3
21070969	21071027	0.069 - 0.090	1.8 - 2.3	0.180	4.6
21070976	21071034	0.089 - 0.114	2.3 - 2.9	0.180	4.6
21070983	21071041	0.113 - 0.130	2.9 - 3.3	0.180	4.6
21070990	21071058	0.180 - 0.204	4.6 - 5.2	0.250	6.4
21071003	21071065	0.240 - 0.260	6.1 - 6.6	0.320	8.1

BT Series
Spring-Fast® Standard Wire Protection Grommet Edging
Cushioned

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: Abrasion Resistant Nylon Thermoplastic
  Cushion: TPE
- Color: Black
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 185°F (-40°C to 85°C)
- RoHS, REACH compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1500 volts
- Resistant to hydrocarbons, immersion, salt spray, shock and vibration
- Salt Spray Test: 2000 hours
- Taber Abrasion Resistant TPE Cushion per D1044
- Random Shock and Vibration MIL-STD-1344

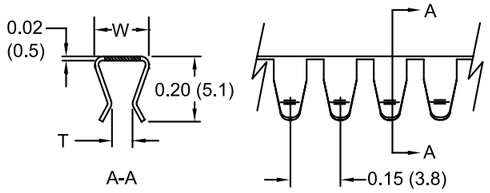
Features:
- Standard grommet with a flexible polymer cushion for added abrasion protection
- Snaps on fast with finger pressure; installs continuously with two axis conformity
- For straight edges, inside corners, and sharp outside corners
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns

Item No. Roll Length		Panel Thickness (T)		Width (W)	
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071072	21071164	0.020 - 0.030	0.5 - 0.8	0.190	4.8
21071089	20559328	0.029 - 0.045	0.7 - 1.1	0.190	4.8
21071096	10160558	0.044 - 0.056	1.1 - 1.4	0.190	4.8
21071102	10160565	0.055 - 0.069	1.4 - 1.8	0.190	4.8
21071119	10160572	0.069 - 0.090	1.8 - 2.3	0.230	5.8
21071126	21071171	0.089 - 0.114	2.3 - 2.9	0.230	5.8
21071133	10160589	0.113 - 0.130	2.9 - 3.3	0.230	5.8
21071140	21071188	0.180 - 0.204	4.6 - 5.2	0.320	8.1
21071157	21071195	0.240 - 0.260	6.1 - 6.6	0.380	9.7

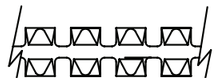
AP Series
Spring-Fast® Extra Flexible Wire Protection Grommet Edging
Non-cushioned, Low Profile

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: Abrasion Resistant Nylon Thermoplastic
- Color: Black
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 285°F (-40°C to 140°C)
- RoHS, REACH, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1000 volts
- Salt Spray Test: 2000 hours
- Taber Abrasion Resistant Nylon per NFT 30-015
- Random Shock and Vibration MIL-STD-1344



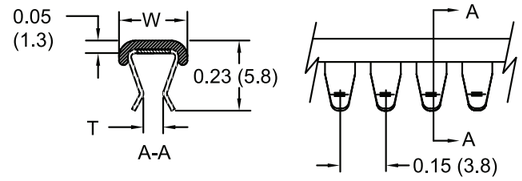
Features:
- Greater gripping strength for severe shock and vibration environments
- Encapsulated with lubricious fusion bonded nylon for superior abrasion and chemical resistance
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- Multi-axis flexibility for rounded inside and outside corners
- Ideal for low profile clearance where superior grip strength and retention are important factors

Item No. Roll Length		Panel Thickness (T)		Width (W)	
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071201	21071270	0.020 - 0.030	0.5 - 0.8	0.130	3.3
21071218	10160596	0.029 - 0.045	0.7 - 1.1	0.130	3.3
21071225	10641378	0.044 - 0.056	1.1 - 1.4	0.130	3.3
21071232	10160602	0.055 - 0.069	1.4 - 1.8	0.130	3.3
21071249	10160619	0.069 - 0.090	1.8 - 2.3	0.180	4.6
21071256	21071287	0.089 - 0.114	2.3 - 2.9	0.180	4.6
21071263	10160626	0.113 - 0.130	2.9 - 3.3	0.180	4.6

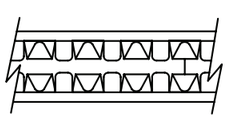
BAP Series
Spring-Fast® Extra Flexible Wire Protection Grommet Edging
Cushioned

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: Abrasion Resistant Nylon Thermoplastic
  Cushion: TPE
- Color: Black
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 285°F (-40°C to 140°C)
- RoHS, REACH compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1500 volts
- Salt Spray Test: 2000 hours
- Taber Abrasion Resistant TPE Cushion per D1044
- Random Shock and Vibration MIL-STD-1344



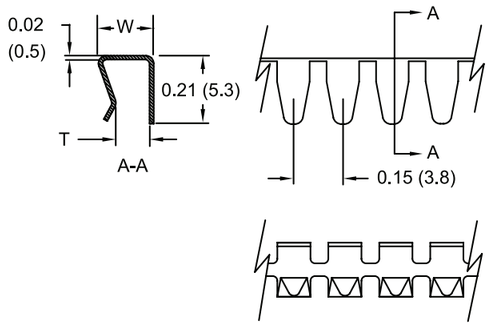
Features:
- Greater gripping strength for severe shock and vibration environments
- Encapsulated with lubricious fusion bonded nylon for superior abrasion and chemical resistance
- Includes a flexible polymer cushion for added abrasion protection
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- Multi-axis flexibility for rounded inside and outside corners

Item No. Roll Length		Panel Thickness (T)		Width (W)	
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071294	21071362	0.020 - 0.030	0.5 - 0.8	0.190	4.8
21071300	10426029	0.029 - 0.045	0.7 - 1.1	0.190	4.8
21071317	20559335	0.044 - 0.056	1.1 - 1.4	0.190	4.8
21071324	10426012	0.055 - 0.069	1.4 - 1.8	0.190	4.8
21071331	21071379	0.069 - 0.090	1.8 - 2.3	0.280	7.1
21071348	21071386	0.089 - 0.114	2.3 - 2.9	0.280	7.1
21071355	21071393	0.113 - 0.130	2.9 - 3.3	0.280	7.1

FM Series
Spring-Fast® Flush Edge Wire Protection Grommet Edging
Non-cushioned, Super Low Profile

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Cushion: TPE
- Color: Black with Color Sizing (See Table)
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 285°F (-40°C to 140°C)
- RoHS, REACH, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1000 volts
- Salt Spray Test: 2000 hours
- Taber Abrasion Resistant Nylon per NFT 30-015
- Random Shock and Vibration MIL-STD-1344

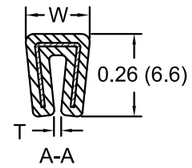
Features:
- Lowest profile of any grommet edging with the same characteristics as the AP Series, plus flush mounting on one side for flat panel surfaces
- Encapsulated with lubricious fusion bonded nylon for superior abrasion and chemical resistance
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- Multi-axis flexibility for rounded inside and outside corners

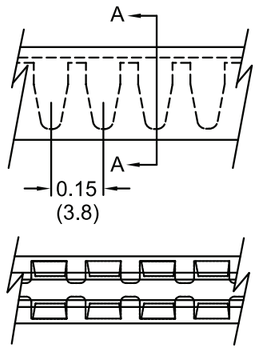
Item No. Roll Length		Panel Thickness (T)		Width (W)		Color	Sizing Color Code
25ft / 7.5m	100ft / 30m	In	mm	In	mm		
21071409	21071430	0.044 - 0.056	1.1 - 1.4	0.140	3.6	Black	Pink
21071416	21071447	0.055 - 0.069	1.4 - 1.8	0.140	3.6	Black	Yellow
21071423	21071454	0.069 - 0.090	1.8 - 2.3	0.140	3.6	Black	Blue

SL Series
Spring-Fast® Encapsulated Wire Protection Grommet Edging
Non-cushioned

NEW







Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: TPE Encapsulation
- Color: Black
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -67°F to 203°F (-55°C to 95°C)
- RoHS, REACH, EWIS, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 2000 volts
- Salt Spray Test: 500 hours
- Taber Abrasion Resistant Nylon per D1044
- Random Shock and Vibration MIL-STD-1344

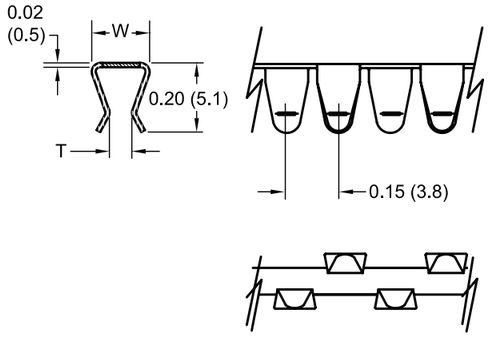
Features:
- Fully encapsulated in a flexible, lubricious TPE for superior abrasion and chemical resistance
- Added abrasion protection for wires and hands
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- 4-axis flexibility; acts as a best in class grommet edge or a high performance edge trim

Item No. Roll Length		Panel Thickness (T)		Width (W)	
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071461	21071546	0.020 - 0.030	0.5 - 0.8	0.212	5.4
21071478	21071553	0.029 - 0.045	0.7 - 1.1	0.212	5.4
21071485	21071560	0.044 - 0.056	1.1 - 1.4	0.212	5.4
21071492	21071577	0.055 - 0.069	1.4 - 1.8	0.212	5.4
21071508	21071584	0.069 - 0.090	1.8 - 2.3	0.277	7.0
21071515	21071591	0.089 - 0.114	2.3 - 2.9	0.277	7.0
21071522	21071607	0.113 - 0.130	2.9 - 3.3	0.277	7.0
21071539	21071614	0.135 - 0.145	3.4 - 3.7	0.277	7.0

M22529/1 Series
Spring-Fast® Extra Flexible Mil Spec Composite Grommet Edging
Non-cushioned, Low Profile

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: Abrasion Resistant Epoxy
- Color: Green
- U.S. Defense Dept. FAA Acceptable: NASM22529/1 and
  National Stock Number: Federal Supply Code 5325
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 293°F (-40°C to 140°C)
- RoHS, REACH, EWIS, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1000 volts
- Salt Spray Test: 500 hours
- Taber Abrasion Resistant Nylon per NFT 30-015
- Random Shock and Vibration MIL-STD-1344

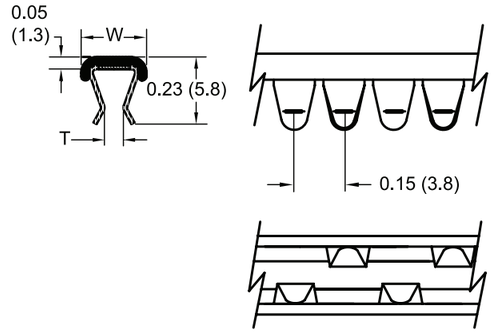
Features:
- Lowest profile (size) grommet
- Encapsulated with lubricious fusion bonded epoxy for superior abrasion and chemical resistance
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- Two-axis flexibility for rounded inside and outside corners
- In service use on tactical equipment, C4 electronics, and ground based electronic systems

Item No.		Panel Thickness (T)		Width (W)	
Roll Length					
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071621	21071706	0.025 - 0.036	0.6 - 0.9	0.140	3.6
21071638	21071713	0.036 - 0.063	0.9 - 1.6	0.140	3.6
21071645	21071720	0.059 - 0.074	1.5 - 1.9	0.140	3.6
21071652	21071737	0.070 - 0.093	1.8 - 2.4	0.190	4.8
21071669	21071744	0.090 - 0.111	2.4 - 2.8	0.190	4.8
21071676	21071751	0.105 - 0.134	2.7 - 3.4	0.190	4.8
21071683	21071768	0.178 - 0.198	4.5 - 5.0	0.250	6.4
21071690	21071775	0.240 - 0.260	6.1 - 6.6	0.320	8.1

M22529/2 Series
Spring-Fast® Standard Mil Spec Composite Grommet Edging
Cushioned

NEW





Specifications:
- Material:
  Substrate: 304 Stainless Steel
  Coating: Abrasion Resistant Epoxy
  Cushion: TPE
- Color: Green
- U.S. Defense Dept. FAA Acceptable: NASM22529/2 and
  National Stock Number: Federal Supply Code 5325
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 185°F (-40°C to 85°C)
- RoHS, REACH, EWIS, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1500 volts
- Salt Spray Test: 500 hours
- Taber Abrasion Resistant TPE Cushion per D1044
- Random Shock and Vibration MIL-STD-1344

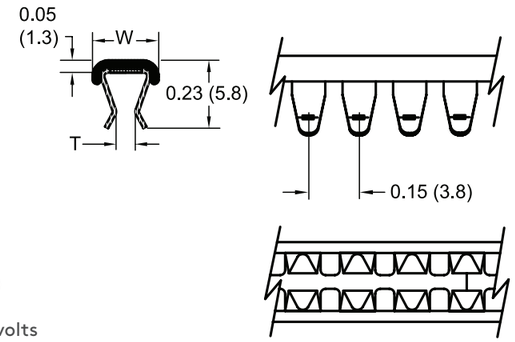
Features:
- Encapsulated with lubricious fusion bonded epoxy for superior abrasion and chemical resistance
- Includes a flexible polymer cushion as a softer and sacrificial wire interface for even greater wire protection
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, clean up or OSHA concerns
- Two-axis flexibility with enhanced grip strength for straight edges, inside corners, and sharp outside corners
- In service use on airframes, wings, bulkheads, APU's, avionics, helicopters, jets, military transport, and tactical equipment

Item No.		Panel Thickness (T)		Width (W)	
Roll Length					
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071782	21071867	0.025 - 0.036	0.6 - 0.9	0.200	5.1
21071799	21071874	0.036 - 0.063	0.9 - 1.6	0.200	5.1
21071805	21071881	0.059 - 0.074	1.5 - 1.9	0.200	5.1
21071812	21071898	0.070 - 0.093	1.8 - 2.4	0.240	6.1
21071829	21071904	0.090 - 0.111	2.4 - 2.8	0.240	6.1
21071836	21071911	0.105 - 0.134	2.7 - 3.4	0.240	6.1
21071843	21071928	0.178 - 0.198	4.5 - 5.0	0.320	8.1
21071850	21071935	0.240 - 0.260	6.1 - 6.6	0.380	8.1

M22529/3 Series
Spring-Fast® Extra Flexible Mil Spec Composite Grommet Edging
Cushioned

NEW





Specifications:

- Material:
  - Substrate: 304 Stainless Steel
  - Coating: Abrasion Resistant Epoxy
  - Cushion: TPE
- Color: Green
- U.S. Defense Dept. FAA Acceptable: NASM22529/3 and National Stock Number: Federal Supply Code 5325
- Flammability Rating: UL94 V-0 (File No. E113553 NZMT2)
- Operating Temperature Range: -40°F to 285°F (-40°C to 140°C)
- RoHS, REACH, EWIS, FAR 25.853 compliant
- Dielectric Strength Volts: 60Hz NASM22529 Section 3.2.1: 1500 volts
- Chemically resistant to most hydrocarbons, Skydrol immersion, salt spray, shock, and vibration resistance
- Salt Spray Test: 2000 hours
- Taber Abrasion Resistant TPE Cushion per D1044
- Random Shock and Vibration MIL-STD-1344

Features:

- Greater gripping strength for severe shock and vibration environments
- Includes a flexible polymer cushion for added abrasion protection
- Snaps on fast with finger pressure; installs continuously with multi axis conformity
- Self locking with strong retention; no adhesive, fixturing, curing, or clean up
- Multi-axis flexibility for flanged edges, rounded inside and outside corners
- In service use on airframes, wings, bulkheads, APU's, avionics, helicopters, jets, military transport, and tactical equipment

Item No.		Panel Thickness (T)		Width (W)	
Roll Length					
25ft / 7.5m	100ft / 30m	In	mm	In	mm
21071942	21072000	0.025 - 0.036	0.6 - 0.9	0.200	5.1
21071959	21072017	0.036 - 0.063	0.9 - 1.6	0.200	5.1
21071966	21072024	0.059 - 0.074	1.5 - 1.9	0.200	5.1
21071973	21072031	0.070 - 0.093	1.8 - 2.4	0.240	6.1
21071980	21072048	0.090 - 0.111	2.4 - 2.8	0.240	6.1
21071997	21072055	0.105 - 0.134	2.7 - 3.4	0.240	6.1

ESSENTRA COMPONENTS

LET'S TALK

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