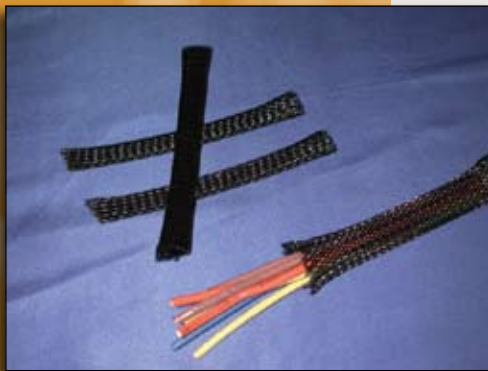


EMI/RFI Shielding

Protect-Fast™ Expander & Shield Expander



DTi's Protect-Fast™ Expander and Shield Expander products provide excellent flexibility and abrasion resistance for wire and cable organizing within a variety of applications including telecommunications, automotive, electronics, and data center design. It's open woven structure enables the Expander to be enlarged up to 3 times the initial diameter. The Shield Expander has the same mechanical properties as the Expander but also provides excellent shielding effectiveness because of its woven fibers and conductive copper wire design.

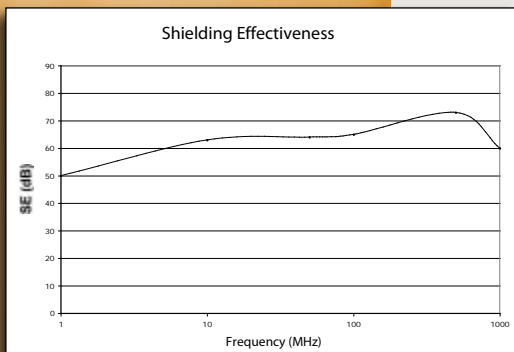


Features and Benefits:

- Superior flexibility
- Excellent abrasion resistance
- Colors: Black, White, Blue, Red, and Black and White Stripe
- Flammability: Optional UL94-V0
- Excellent surface resistivity: Shield Expander only

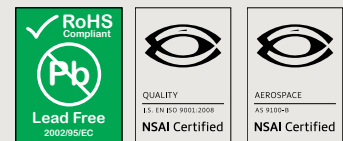
Applications:

- Telecommunication
- Transportation
- Theaters
- Data Centers



Expander and Shield Expander Specifications:

Content	Expander	Shield Expander
Material	PET monofilament	Sn plated flat Cu wire around glass fibers
Service Temp. (°C)	-65 ~ 125	-70 ~ 125
Density (g/cm ³)	1.40	-
Tensile Strength (kgf/cm ²) [ksi]	645.7 [9.2]	-
Elongation (%)	20	-
Melting Point (°C)	255	-
Surface Resistivity (Ω/sq.)	-	0.02
Flammability	UL94 V-0 on NFR Series	Non-Flammable



Protect-Fast™ Part Numbers

	Part Number	Size	Inner Diameter Range	Flammability	Length	
		inches	inches		inches	mm
Expander	N0XX-1000	1/4	1/8 - 1/2	N/A	39.37	1000
	N1XX-0300	1/4	1/8 - 3/8		11.81	300
	N2XX-0300	3/8	3/16 - 1/2		11.81	300
	N3XX-0300	1/2	1/4 - 3/4		11.81	300
	N4XX-0150	3/4	1/2 1 1/4		5.91	150
	N5XX-0100	1 1/4	3/4 - 1 1/2		3.94	100
	N6XX-0100	1 1/2	1 1/4 - 2 1/4		3.94	100
Flame Retardant Expander	N0XXFR-1000	1/4	1/8 - 1/2	UL94-V0 Rated Nylon	39.37	1000
	N1XXFR-0300	1/4	1/8 - 3/8		11.81	300
	N2XXFR-0300	3/8	3/16 - 1/2		11.81	300
	N3XXFR-0300	1/2	1/4 - 3/4		11.81	300
	N4XXFR-0150	3/4	1/2 - 1 1/4		5.91	150
	N5XXFR-0100	1 1/4	3/4 - 1 1/2		3.94	100
	N6XXFR-0100	1 1/2	1 1/4 - 2 1/4		3.94	100
Shield Expander	C0NF-0300	1/4	1/8 - 1/2	Non-Flammable Tin Copper	11.81	300
	C1NF-0300	1/4	1/8 - 3/8		11.81	300
	C2NF-0200	3/8	3/16 - 1/2		7.87	200
	C3NF-0200	1/2	1/4 - 3/4		7.87	200
	C4NF-0100	3/4	1/2 1 1/4		3.94	100
	C5NF-0100	1 1/4	3/4 - 1 1/2		3.94	100

Expander Color Options:

XX Color Codes	Colors
BK	Black
WH	White
BW	Black/White Line
RD	Red
BU	Blue

Ordering Examples:

N1BK-0300 Type: Expander Size: 1/4" Range: 1/8" ~ 3/8" Color: Black Length: 300mm (11.81")	N4WHFR-0150 Type: Non-Flammable Expander Size: 3/4" Range: 1/2" ~ 1 1/4" Color: White Length: 150mm (5.91")	C2NF-0200 Type: Shielding Expander Size: 3/8" Range: 3/16" ~ 1/2" Color: Silver Length: 200mm (7.87")
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I.S. EN ISO 9001:2008 • AS9100-B/ISO 9001:2008 Certified. Registration No. AS19.4480

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