

Expando[®] HTNS-L/HO

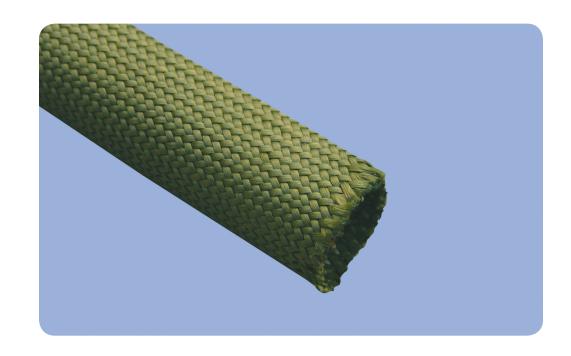
Product Highlights

- Operating temperature from -60°C to +240°C (-76°F to +464°F)
- ASD EN 6049-003
- 1:2 expansion ratio
- Thin wall
- Lightweight
- Self-extinguishing
- Excellent abrasion protection
- Resistant to gamma and x-rays
- Water repellent



Our manufacturing sites are certified ISO 9001, ISO/TS 16949, or AS/EN 9100, and ISO 14001

EXPHTNSLHO_09212017



Expando HTNS-L/HO is a thin wall braided sleeve manufactured from the metaaramid Nomex[®]. Its highly expandable structure allows easy installation over long lengths even after the fitting of end connectors with a limited range of product sizes.

Expando HTNS-L/HO's flexible, expandable and non-flammable properites ensure excellent performance in the most diverse and aggressive environments. The product is designed for the protection of wire and cable bundles against flame, high temperatures, and mechanical abrasion.

The properties of Expando HTNS-L/HO ensure excellent resistance to gamma and x-rays.

Expando HTNS-L/HO has a water repellent treatment (HO) to reduce humidity absorption and to improve impermeability to fluids.

Expando HTNS-L/HO has various applications in the military, marine and aeronautical industries.

Expando products are tough, lightweight oversleeves used to protect cable assemblies, hoses and wire harnesses from chafing, cutting and abrading. The open-braid construction of Expando products enables each size to expand to fit several application shapes and diameters. This open-textile construction also makes them highly flexible and resistant to trapping water, heat and humidity.

Nomex is a registered trademark of E.I. DuPont de Nemours.





Performance Data – Expando[®] HTNS-L/HO

Property	Test Method	Result
Operating Temperature		-60°C to +240°C (-76°F to +464°F) (continuous) Up to +310°C (+590°F) (short term)
Carbonization	Above +370°C (+698°F)	Does not melt
Abrasion Resistance	EN 6059 Part 403	Pass
Flame resistance	FAR 25 AMDT.25-72 § 853(b)	Pass
Fluid resistance Fuel: JP5 (NATO F44) Hydraulic fluids Skydrol 5 00 B4 & L D4 Mineral oil: MIL-L-7870A Synthetic oil: MIL-L 23699 Cleaning fluids: Forane 141B & MIL-L-87936 De-Icing fluid: MIL-A-8243	EN 6059 Part 303 (24h with various temperatures)	Pass Pass Pass Pass Pass Pass Pass Pass
Humidity resistance	1000 h at +150°C (+302°F) in air saturated with water vapor	Retains 70% of its original tensile strength
Water repellent	EN 6059 Part 305	Pass

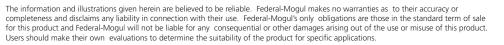
Product Specifications Longitudinal shrinkage should be taken into account when utilizing expansion properties of the sleeve

Commercial Part Number	Recommended Application Range mm (in)		Max Weight	Standard Packaging
Fart Nulliber	Min Ø	Max Ø	g/m (lbs/ft)	m (ft)
Expando HTNS-L/HO 2-X	1 (1/32")	2 (1/16")	2.7 (0.002)	100 (328′)
Expando HTNS-L/HO 4-X	2 (1/16")	4 (3/16")	4.0 (0.003)	100 (328′)
Expando HTNS-L/HO 6-X	4 (3/16")	8 (5/16")	8.0 (0.005)	100 (328′)
Expando HTNS-L/HO 8-X	6 (1/4")	12 (7/16")	12.0 (0.008)	50 (164')
Expando HTNS-L/HO 10-X	8 (5/16")	16 (5/8")	14.0 (0.009)	50 (164')
Expando HTNS-L/HO 15-X	10 (3/8")	20 (3/4")	17.0 (0.011)	50 (164')
Expando HTNS-L/HO 20-X	12 (7/16")	24 (15/16")	22.0 (0.015)	50 (164')
Expando HTNS-L/HO 25-X	15 (9/16")	30 (1-3/16")	32.5 (0.022)	50 (164')
Expando HTNS-L/HO 30-X	20 (3/4")	40 (1-1/2")	38.0 (0.026)	50 (164')

X = Color Code: 5 = green 9 = ivory 2 = red0 = black3 = orange

Part Numbering System

Example	Description	Size	Color	Quantity
	Expando HTNS-L/HO	4	5 (green)	100m



Systems Protection

USA:	(1) 800 926 2472
Europe:	(33) 3 44 39 06 06

Europe:	(33) 3 44 39 06 06
Japan:	(81) 45 479 0201
China:	(86) 21 6182 7688

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