

PROTECTIVE SLEEVING

Expando® HTNS-L/HO

1:2 Expansion ratio

thin wall braided sleeving

Applications

Expando HTNS-L/HO is a thin-wall braided sleeving manufactured from meta aramid Nomex™. Its highly expandable structure allows easy installation over long lengths, even after the fitting of end connectors.

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

Expando HTNS-L/HO has an oil and water repellent treatment (HO) to reduce humidity absorption and to improve impermeability to fluids. HTNS-L/HO also offers excellent resistance to gamma and x-rays.

HTNS-L/HO is used on a variety of applications in the military, marine, aeronautical, railway and electrical equipment industries.

Features & Benefits

- 1 : 2 expansion ratio
- Low temperature flexibility to -60°C
- Thin wall
- Lightweight
- Self-extinguishing
- Excellent abrasion protection
- Resistant to gamma & x-rays
- Oil and water repellent

Operating Temperature

- -60°C to +240°C

Note: For further information on the Expando HTNS-L/HO product range or assistance with your specific sleeving requirements, please contact us.



Approvals

- EN 6049-003
- PAN 6480P



Technical Performance

Properties	Test	Results
Operating temperature range	-	-60°C to +240°C (continuous) Up to +310°C (short term)
Carbonisation	Above +370°C	Does not melt
Abrasion resistance	EN 6059 Part 403	Pass
Bending strength	50,000 bending cycles at +180°C	Excellent
Flame resistance (Self-extinguishing properties)	UL 224	Sleeve classified VW1
	UL 94	Base material classified V0
	FAR 25 AMDT.25-72§ 853(b)	Pass
Fluid resistance		
<i>Fuel: JP5 (NATO F44)</i>	EN 6059 Part 303 (24hrs with various temperatures)	Pass
<i>Hydraulic fluids: Skydrol 500B4 & L D4</i>		Pass
<i>Mineral oil: MIL-L-7870A</i>		Pass
<i>Synthetic oil: MIL-L 23699</i>		Pass
<i>Cleaning fluids: Forane 141B & MIL-L-87936</i>		Pass
<i>De-icing fluid: MIL-A-8243</i>		Pass
Humidity resistance	1000h at +150°C in air saturated with water vapor	Retains 70% of its original tensile strength
Water/oil repellent treatment (HO)	EN 6059 Part 305	Pass

Note: Longitude shrinkage should be taken into account when utilizing the full expansion properties of the sleeve.

Expando HTNS-L/HO Dimensions (all dimensions are in mm)

Recommended Diameter Range (mm)		Weight (g/100m)	Standard Packaging (m)	Ordering Description
Min.	Max.			
1	2	270	100	HTNS-L-HO-2mm-Green
2	4	400	100	HTNS-L-HO-4mm-Green
4	8	800	100	HTNS-L-HO-6mm-Green
6	12	1200	50	HTNS-L-HO-8mm-Green
8	16	1400	50	HTNS-L-HO-10mm-Green
10	20	1700	50	HTNS-L-HO-15mm-Green
12	24	2200	50	HTNS-L-HO-20mm-Green
15	30	3250	50	HTNS-L-HO-25mm-Green
20	40	3800	50	HTNS-L-HO-30mm-Green

Ordering Information

Standard colour:

Olive-green.

Other colours:

Special colours are available, subject to a minimum order quantity.

Ordering description:

Specify product name, size and colour: HTNS-L-HO-4mm-Green.

Ordering Example:

An olive-green protective sleeve capable of covering an 11mm cable diameter is required = HTNS-L-HO-10mm-Green.

