

PROTECTIVE SLEEVING

Expando® HTNS-LA/HO

1:3 Expansion ratio thin wall braided sleeve

Applications

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

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

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

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

Features & Benefits

- 1 : 3 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-LA/HO** product range or assistance with your specific sleeving requirements, please contact **IS-Rayfast**.

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Technical Performance

Properties	Test	Results
Working temperature		-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	UL 224	Sleeve classified VWI
(Self-extinguishing properties)	UL 94 FAR 25 AMDT.25-72§ 853(b)	Base material classified V0 Pass
Fluid resistance	EN 6059 Part 303	
• Fuel: JP5 (NATO F44)	(24hrs with various temperatures)	Pass
• Hydraulic fluids:		
• Skydrol 500B4 & L D4		Pass
• Mineral oil: MIL-L-7870A		Pass
• Synthetic oil: MIL-L 23699		Pass
• Cleaning fluids:		
Forane 141B & MIL-L-87936		Pass
• De-icing fluid: MIL-A-8243		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-LA/HO Dimensions (all dimensions are in mm's)

Description	Recommended Diameter range (mm)		Weight (g/100m)	Standard Packaging (m)	Ordering Description
	Min.	Max.			
HTNS-LA/HO 5	2	6	550	100	HTNS-LA-HO-5mm-5
HTNS-LA/HO 10	5	15	1100	100	HTNS-LA-HO-10mm-5
HTNS-LA/HO 15	8	24	1800	100	HTNS-LA-HO-15mm-5
HTNS-LA/HO 25	12	36	2200	50	HTNS-LA-HO-25mm-5
HTNS-LA/HO 40	22	60	3100	50	HTNS-LA-HO-40mm-5

Ordering Information

Standard colour: 5 = (Olive-green).
special colours are available, subject to a minimum order quantity.

Ordering description: Specify product name, size and colour; **HTNS-LA-HO-10mm-5** (5=Olive-green).

Ordering Example: A olive-green protective sleeve capable of covering a 10mm cable diameter is required = **HTNS-LA-HO-10mm-5** (5=Olive-green).