

PROTECTIVE SLEEVING

Expando® TCP-L

1:3 Expandable braided sleeving

Applications

Expando TCP-L is an expandable braided sleeve manufactured from modified polyester monofilaments. Designed for the protection of tubing and the maintenance of wire and cable bundles.

TCP-L has a highly expandable structure which allows easy installation over long lengths, even after the fitting of end connectors. Expando TCP -L has a high expansion ratio which enables a large number of diameters to be covered with a limited range of sizes.

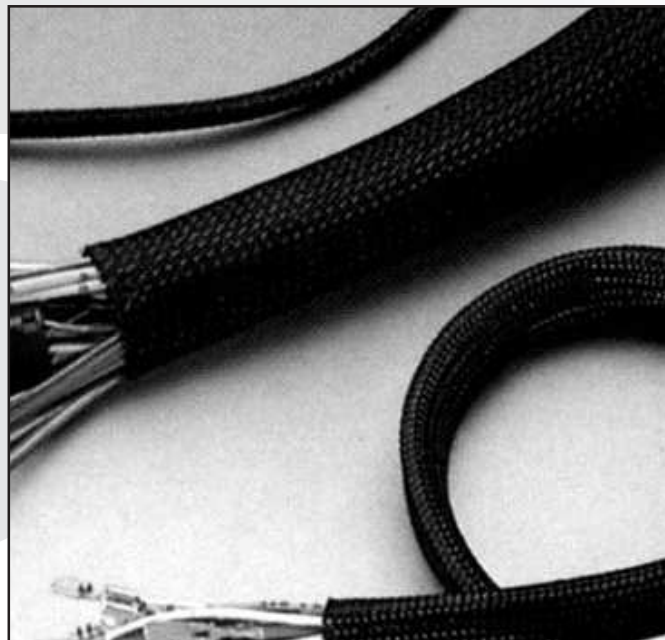
The properties of the monofilament ensure excellent sleeve performance in the most diverse and aggressive applications and environments.

Features & Benefits

- 1:3 expansion ratio
- Self-extinguishing
- Halogen-free
- Excellent abrasion resistance
- Easy installation over long lengths

Operating Temperature

- -50°C to +150°C



Note: For further information on the **Expando TCP-L** product range or assistance with your specific sleeving requirements, please contact **IS-Rayfast**.

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Technical Performance

Properties	Test	Results
Working temperature		-50°C to +150°C up to +180°C for a short period
Ageing	168h at +175°C (ISO R188)	Retains 71% of initial breaking strength
Cut-through resistance	DIN 65164 (2-317)	Pass
Breaking strength		20 N minimum
Flame resistance	UL 224	Pass
	FMVSS standard 302 (Test method D451333)	Self-extinguishing, Type B
Corrosivity	ASTM D2671 (Copper mirror test)	0
Fluid resistance	Immersion for 24hrs at +70°C	Good
I JP4 airplane fuel, NATO V-40		See specifications: TX90005 and C.R.E. 91 03 01
I Skydrol 500B hydraulic fluid		
I Lubricating oil, NATO.0.156		
I Distilled water, ISO 1817		

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

Expando TCP-L Dimensions (all dimensions are in mm's)

Description	Recommended application range (mm)		Standard Packaging (m)	Ordering Description
	Min.	Max.		
Expando TCP-L 3	2	6	200	TCP-L-3mm-Colour
Expando TCP-L 6	4	12	200	TCP-L-6mm-Colour
Expando TCP-L 12	7	21	100	TCP-L-12mm-Colour
Expando TCP-L 20	10	30	50	TCP-L-20mm-Colour
Expando TCP-L 30	18	54	50	TCP-L-30mm-Colour
Expando TCP-L 40	22	66	50	TCP-L-40mm-Colour
Expando TCP-L 50	27	81	50	TCP-L-50mm-Colour

Ordering Information

Standard colours: 0 = (Black), 8 = (Grey).

Ordering description: Specify product name, size and colour; **TCP-L-12mm-0** (0=Black).

Ordering Example: A black protective sleeve capable of covering a 14mm cable diameter is required = **TCP-L-12mm-0** (0=Black).

A Grey protective sleeve capable of covering a 24mm cable diameter is required = **TCP-L-20mm-8** (8=Grey).