

## Expando<sup>®</sup> TCP-L

### 1:3 Expandable braided sleeving

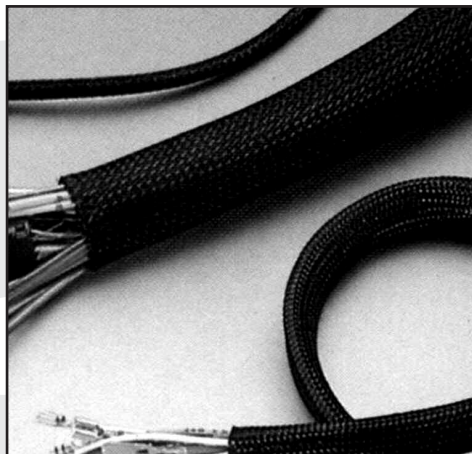
#### Applications

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.

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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 for assistance with your specific sleeving requirements, please contact us.

#### Technical Performance

Properties	Test	Results
Operating temperature range	-	-50°C to +150°C Up to +180°C for a short period
Aging	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</i>		See specifications: TX90005 and C.R.E. 91 03 01
<i>Skydrol 500B hydraulic fluid</i>		
<i>Lubricating oil, NATO.0.156</i>		
<i>Distilled water, ISO 1817</i>		

**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)

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

#### Ordering Information

Standard colours: Black, Grey.  
 Ordering description: Specify product name, size and colour: TCP-L-12mm-Black.  
 Ordering Example: A black protective sleeve capable of covering a 14mm cable diameter is required = TCP-L-12mm-Black.

