

# Protective Sleeving

## EXPANDO® PT and PT Plus

Polyester (PET)

Expandable braided sleeving

### Abrasion and Mechanical Protection

Tough, lightweight over sleeves used to protect cable assemblies, hose 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.

Expando PT and Expando PT Plus are braided polyester (PET) sleeves designed for applications up to 125°C. General purpose industrial/commercial products, Expando PT and PT Plus balance the properties of mechanical and thermal stability with economy.

The patented 'Plus' treatment makes end termination neater and easier, by creating a webbing between the filaments of the sleeving to reduce end fray during installation and through the life of the product, allowing it to be cut with ordinary scissors.

Expando PT and Expando PT Plus over sleeves have many applications in the marine, electronic and general manufacturing industries. Retains flexibility at low temperatures making both versions ideal for exposed applications in weather stations, navigation beacons and radar antennas.

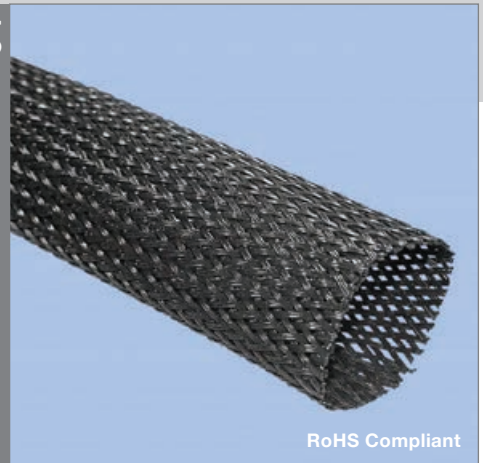
### Features & Benefits

- Abrasion resistant
- Halogen free
- 1:3 expansion ratio
- Does not trap heat or humidity
- Rot free
- Self extinguishing when used to encase typical non-flammable wires or cables.
- 'Plus' version eliminates the need for hot-knife cutting
- Available in 6 colours

### Operating Temperature

- From -70°C to +125°C

1:3 expansion ratio



RoHS Compliant

### Specifications & Approvals

- UL Recognised component

### Notes

Longitudinal shrinkage should be taken into account when utilising the full expansion properties of the sleeve. Available in spool lengths as standard, or as cut to length to requirements to special order.

For further information on this or other products in our range, or for assistance with your specific requirements, please contact us.

All numeric data shows average or typical values.

Properties	Test	Results	
Melt Temperature	ASTM D-2117	+250°C	
Low Temperature flexibility	MIL-DTL-23053E	-70°C	
Copper Corrosivity	MIL-I-23053	No Effect	
		Expando PT	Expando PT Plus
Smoke Density	ASTM E-1354	D <sub>mc</sub> =2.12	D <sub>mc</sub> =2.05
Hard Vacuum	ASTM E-595	0.30%	Expando sleeving products made with the 'Plus' treatment should not be used in hard vacuum environments nor immersed in solvents, or liquids where 'Plus' particles could contaminate the system environment. Consult us for info.
• TML (Mass)		0.03%	
• CVCM (Condensation)		0.16%	
Fluid resistance	MIL-I-23053	Tensile Retention	
• JP4 Jet Fuel (MIL-T-5624)		100%	
• Hydraulic Fluid (MIL-H-5606)		99%	
• Lube Oil (MIL-I-7808)		100%	
• De-icing Fluid (MIL-A-8243)		99%	
• Salt Water (O-S-1926)		100%	

Recommended Application Range		Weight	Pack Size	Part Number
Minimum Ø (mm)	Maximum Ø (mm)	Nom g/m	Spools	
2	6	2.62 2.62	600m	Expando PT 3-Colour Expando PT Plus 3-Colour
3	11	4.32 3.93	300m	Expando PT 6-Colour Expando PT Plus 6-Colour
6	13	9.90 9.49	150m	Expando PT 10-Colour Expando PT Plus 10-Colour
6	19	12.60 11.61	150m	Expando PT 13-Colour Expando PT Plus 13-Colour
13	32	19.64 18.01	150m	Expando PT 19-Colour Expando PT Plus 19-Colour
19	45	26.19 24.85	75m	Expando PT 32-Colour Expando PT Plus 32-Colour
32	70	44.20 42.56	75m	Expando PT 45-Colour Expando PT Plus 45-Colour
38	89	54.02 53.34	75m	Expando PT 51-Colour Expando PT Plus 51-Colour
45	114	58.17 63.40	75m	Expando PT 64-Colour Expando PT Plus 64-Colour

**Part Number Example; Expando PT 13-0** 13mm inside diameter, black tubing, supplied in 150m spools.

#### Ordering Information

Preferred colour: 0 = Black  
 Non preferred colours: 3=Orange, 4=Yellow, 6=Blue, 8=Grey, 9=Natural/White  
 Standard packaging: Spools only, for MOQ please contact us