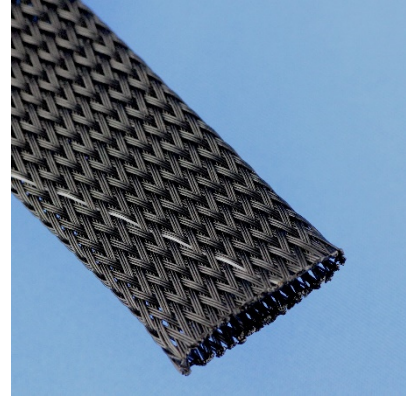


## EXPANDO HR Plus, mechanical protection, can be cut with ordinary scissors

Expando® HR Plus is an expandable sleeve constructed of Halar® (E-CTFE) fluoropolymer that is designed for applications up to +150°C (+302°F). Inherently flame-retardant, it is a UL Recognized Component which meets VW-1 requirements, and will not melt and drip on direct exposure to flame. Expando HR Plus is a special purpose, highly reliable solution for military and aerospace applications. It offers good mechanical properties, performs well in both high and low temperature environments, and has outstanding chemical resistance. The patented Bentley-Harris Plus treatment makes end termination neater and easier. The Plus treatment creates a webbing between the filaments of the sleeving to reduce end fray during installation, allowing Expando HR Plus to be cut with ordinary scissors. This reduces assembly time and eliminates the need for proper ventilation equipment required for hot-knife cutting. Expando HR Plus protective oversleeve has many uses in the aerospace, marine, electronic, military, nuclear and general manufacturing industries. Expando products are tough, lightweight oversleeves used to protect cable assemblies, hoses and wire harnesses from chafing, cutting and abrading. The open-weave construction of Expando products enables each size to expand to fit several application shapes and sizes. This open-weave construction a



### Product facts of braided sleeve EXPANDO HR

- VW-1 according to UL 1441
- FAR 25 § 853
- Can be cut with ordinary scissors
- UL recognized component
- Does not trap heat or humidity
- Rot-free

Property	Test Method	Result
Operating Temperature		-70°C to +150°C (-94°F to +302°F)
Low Temperature Flexibility	MIL-DTL-23053D	-70°C
Flammability	UL 1441 FAR Part 25 / 853	VW-1 Pass
Smoke Density	ASTM E-662 Flaming Mode Non-Flaming Mode	Dmax <50 Dmax <50
Abrasion Resistance	EN 6059 Part 403	Pass

**Wärmeschrumpftechnik****Dimensions in mm**

Part Number	Diameter		Weight g/m	Packing unit
	min.	max.		
Expando HR Plus 3-9/0	2.00	6.00	4.42	610
Expando HR Plus 6-9/0	3.00	11.00	6.55	305
Expando HR Plus 13-9/0	6.00	19.00	19.64	152
Expando HR Plus 19-9/0	12.00	32.00	29.47	152
Expando HR Plus 32-9/0	19.00	45.00	37.65	76
Expando HR Plus 45-9/0	32.00	70.00	62.21	76
Expando HR Plus 51-9/0	38.00	89.00	73.66	76

**Standard Colours** (white available on request)

Colour	White (with black tracer)
Ordering Code	-9/0