



Product Highlights

- Operating temperature from -70°C to +125°C (-94°F to +257°F)
- UL recognized component
- Outstanding protection against abrasion and cut-through
- Does not trap heat or humidity
- Rot-free
- Self-fitting over many shapes and sizes
- Cost effective

Expando® DM offers maximum resistance to abrasion and impact damage without sacrificing the valuable features provided in traditional Expando products. Rated to +125°C and featuring a dual-monofilament construction, Expando DM smoothly blends tougher, nylon (guard) strands with customary resilient polyester (support) strands. The carefully calculated mix of guard strands and support strands provides an excellent balance of key features including toughness, expandability, resilience, and flexibility.

Bentley-Harris® Expando® products are tough, lightweight oversleeves used to protect cable assemblies, hoses 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 sizes. This open-textile construction also makes them highly flexible and resistant to trapping water, heat and humidity.

Expando DM extends the service life of fluid, hydraulic, pneumatic or thermally insulated hoses, and wire harnesses where physical abuse is the major hazard. This product should be considered wherever handling, repeated flexing, abrasion, impact or similar hazards indicate a need for a high performance protective oversleeve. Expando DM is ideally suited for applications in electronics, marine, vehicular and industrial environments.



Our manufacturing sites are certified ISO 9001, IATF 16949, or AS/EN 9100, ISO 14001 and ISO 45001 (Selected Sites)

Performance Data – Expando® DM

Property	Test Method	Result
Operating Temperature		-70°C to +125°C (-94°F to +257°F)
Low Temperature Flexibility	SAE J2192	-70°C
Flammability	SAE J369	Self-extinguishing
Fluid Resistance	MIL-DTL-23053	Tensile Retention
Jet Fuel JP-4 (MIL-T-5624)		98%
Hydraulic Fluid (MIL-H-5606)		99%
Lube Oil (MIL-I-7808)		99%
De-Ice Fluid (MIL-A-8243)		99%
Salt Water (O-S-1926)		88%
Melt Temperature	ASTM D-3418	+245°C to +265°C (+473°F to +509°F)

All numeric performance data shows average or typical values. Please consult your sales representative for product drawings, test reports and OEM approvals.

Product Specifications

Commercial Part Number	Recommended Application Range mm (in)		Max Weight g/m (lbs/ft)	Standard Packaging m (ft)
	Min Ø	Max Ø		
Expando DM 3-X	2 (1/16")	6 (1/4")	3.27 (0.0022)	610 (2000')
Expando DM 6-X	3 (1/8")	13 (1/2")	4.91 (0.0033)	305 (1000')
Expando DM 10-X	6 (1/4")	13 (1/2")	11.46 (0.0077)	152 (500')
Expando DM 13-X	6 (1/4")	22 (7/8")	16.37 (0.0110)	152 (500')
Expando DM 19-X	13 (1/2")	32 (1-1/4")	22.92 (0.0154)	152 (500')
Expando DM 25-X	16 (5/8")	51 (2")	29.47 (0.0198)	76 (250')
Expando DM 32-X	19 (3/4")	57 (2-1/4")	31.10 (0.0209)	76 (250')
Expando DM 38-X	22 (7/8")	64 (2-1/2")	40.92 (0.0275)	76 (250')
Expando DM 51-X	29 (1-1/8")	76 (3")	52.38 (0.0352)	76 (250')

X = Color Code: Black - 0 | Red - 2 | Orange - 3 | Yellow - 4 | Blue - 6 | Natural - 9



End view (enlarged diameter) of Expando DM showing nylon guard strands (larger) and polyester support strands (smaller, gray) in a typical configuration.

Part Numbering System

Example	Product Name	Size	Color	Quantity
	Expando DM	13	0 (Black)	152m



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