

EVERFLEX™ BENDING STRAIN RELIEF

Reduce Cable Bending and Prevent Cable Damage

PRODUCT DESCRIPTION

The EVERFLEX bending strain relief (BSR) is a composite of polyurethane and helical steel rods providing graduated stiffness to limit the bend radius and protect your cable. The EVERFLEX BSR is symmetrical in design and omnidirectional in performance.

APPLICATIONS

- As a stand-alone BSR, the EVERFLEX can be used on cables and hoses from 19 mm (0.75 in) to 127 mm (5.0 in).
- The EVERFLEX BSR can also be matched fit into our EVERGRIP™, DYNA-GRIP®, and FARMOR™ Termination products

FEATURES AND BENEFITS

- With slip on design and no cable prep work, full installation takes only minutes
- Secures with internally threaded sleeve coupling or flange mounting ring
- With PMI's EVERFLEX BSR, the point of maximum bending is distributed along the length of the cable inside the BSR as load conditions vary to increase cable life¹
- By adjusting design parameters, the stiffness of the EVERFLEX BSR can be tailored to the specific needs of your cable system



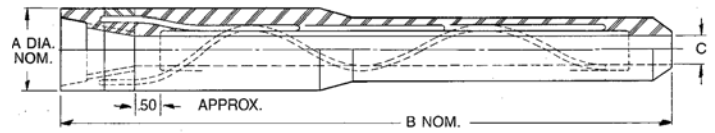
1. Bend limiteds improve cable performance by by Robert L. Swart oceans 1977

EVERFLEX BSR

In laboratory tests, double armored electro-mechanical cables have failed under severe bend conditions in about 5,000 cycles (less than 2 hours of continuous flexing). With EVERFLEX BSR under identical loading conditions, the cable life exceeded 500,000 cycles.

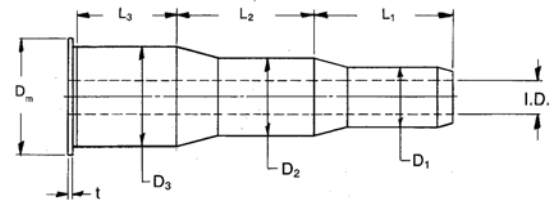
DEF SERIES (FOR USE WITH EVERGRIP, DYNA-GRIP AND FARMOR TERMINATIONS)

DASH #	APPROX. CABLE DIA. RANGE		A	B	C
1	5.0 mm (0.194")	6.2 mm (0.244")	29 mm (1.13")	216 mm (8.50")	10.4 mm (0.41")
2	6.2 mm (0.245")	7.8 mm (0.308")	35 mm (1.38")	279 mm (11.00")	13.2 mm (0.52")
3	7.8 mm (0.309")	9.9 mm (0.388")	48 mm (1.88")	349 mm (13.75")	16.5 mm (0.65")
4	9.9 mm (0.389")	12.4 mm (0.487")	54 mm (2.13")	448 mm (17.62")	20.6 mm (0.81")
5	12.4 mm (0.488")	15.5 mm (0.611")	67 mm (2.63")	552 mm (21.75")	25.4 mm (1.00")
6	15.5 mm (0.612")	19.4 mm (0.765")	86 mm (3.38")	679 mm (26.75")	31.8 mm (1.25")
7	19.4 mm (0.766")	24.3 mm (0.957")	99 mm (3.90")	981 mm (38.62")	38.1 mm (1.50")
8	24.3 mm (0.958")	30.4 mm (1.197")	115 mm (4.52")	1099 mm (43.25")	47.8 mm (1.88")



9003547 SERIES (FOR USE ON LARGE CABLES & HOSE BUNDLES)

SIZE	I	II	III	IV	V
CABLE RANGE	19.1-28.4 mm (0.75-1.12")	28.4-44.5 mm (1.12-1.75")	44.5-63.5 mm (1.75-2.50")	63.5-88.9 mm (2.50-3.50")	88.9-127 mm (3.50-5.00")
ID	31.8 mm (1.25")	50.8 mm (2.00")	69.9 mm (2.75")	98.3 mm (3.87")	136.7 mm (5.38")
D₃	139.7 mm (5.5")	177.8 mm (7.0")	228.6 mm (9.0")	292 mm (11.5")	356 mm (14.0")
D₂	101.6 mm (4.0")	139.7 mm (5.5")	177.8 mm (7.0")	228.6 mm (9.0")	292 mm (11.5")
D₁	76.2 mm (3")	101.6 mm (4.0")	139.7 mm (5.5")	177.8 mm (7.0")	228.6 mm (9.0")
L₃	279 mm (11")	356 mm (14")	457 mm (18")	584 mm (23")	737 mm (29")
L₂	229 mm (9")	305 mm (12")	406 mm (16")	508 mm (20")	635 mm (25")
L₁	305-457 mm (12-18")	406-610 mm (16-24")	508-762 mm (20-30")	635-965 mm (25-38")	838-1270 mm (33-50")
DM	158.2 mm (9")	196.3 mm (7.73")	253.5 mm (9.98")	329.7 mm (12.98")	393.2 mm (15.48")
T	11.4 mm (0.45")	12.7 mm (0.50")	16.0 mm (0.63")	21.1 mm (0.83")	25.4 mm (1.00")
MIN. BEND RADIUS	1219 mm (48")	1626 mm (64")	1930 mm (76")	2337 mm (92")	2870 mm (113")
OFF-AXIS LOAD @ 50° (kN-klbf)	6.7 kN (1.5 klbf)	13.3 kN (3.0 klbf)	22.2 kN (5.0 klbf)	31.1 kN (7.0 klbf)	40.0 kN (9.0 klbf)



TECHNICAL SUPPORT

If you have questions or concerns about any PMI product, please contact our engineering staff directly.
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