

# 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 to 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 life
- By adjusting design parameters, the stiffness of the EVERFLEX BSR can be tailored to the specific needs of your cable system

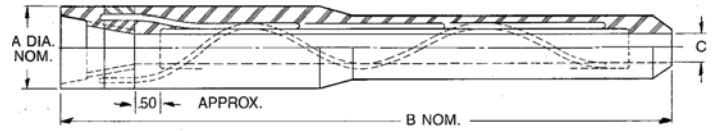


## EVERFLEX BSR

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.

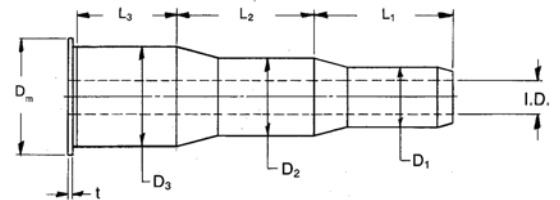
### DEF SERIES (FOR USE WITH EVERGRIP, DYNA-GRIP AND FARMOR TERMINATIONS)

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
<b>CABLE RANGE</b>	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")
<b>ID</b>	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")
<b>D<sub>3</sub></b>	139.7 mm (5.5")	177.8 mm (7.0")	228.6 mm (9.0")	292 mm (11.5")	356 mm (14.0")
<b>D<sub>2</sub></b>	101.6 mm (4.0")	139.7 mm (5.5")	177.8 mm (7.0")	228.6 mm (9.0")	292 mm (11.5")
<b>D<sub>1</sub></b>	76.2 mm (3")	101.6 mm (4.0")	139.7 mm (5.5")	177.8 mm (7.0")	228.6 mm (9.0")
<b>L<sub>3</sub></b>	279 mm (11")	356 mm (14")	457 mm (18")	584 mm (23")	737 mm (29")
<b>L<sub>2</sub></b>	229 mm (9")	305 mm (12")	406 mm (16")	508 mm (20")	635 mm (25")
<b>L<sub>1</sub></b>	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")
<b>DM</b>	158.2 mm (9")	196.3 mm (7.73")	253.5 mm (9.98")	329.7 mm (12.98")	393.2 mm (15.48")
<b>T</b>	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")
<b>MIN. BEND RADIUS</b>	1219 mm (48")	1626 mm (64")	1930 mm (76")	2337 mm (92")	2870 mm (113")
<b>OFF-AXIS LOAD @ 50° (kN-klbf)</b>	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.  
 PMI Industries, Inc. | 990 Resource Drive | Cleveland, Ohio 44131 U.S.A. | sales@pmiind.com