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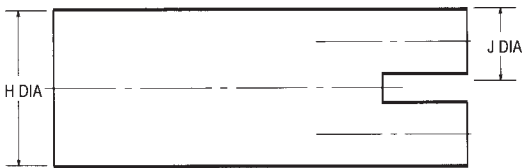
# Heat Shrink Heavy Duty Breakout Boot, 4-Way Outlet

3M Part Numbers HDBB-405 to 430

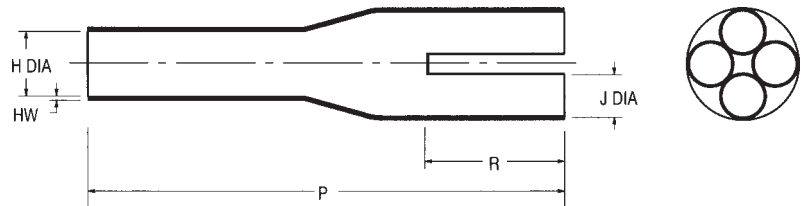
## Typical Applications

These breakout boots provide strain relief and environmental/mechanical protection for breakouts in multiconductor armored or sheathed cables. This style is designed for four breakouts.

### Expanded part (as supplied)



### Fully recovered part (after heating)



PART NUMBER	NAVSEA or DOD-STD- 2003-1 Part Number	Cable End H DIA		Conductor Legs J DIA		P ±10% R	R ±10% R	HW ±20% R
		MIN X	MAX R	MIN X	MAX R			
HDBB-405-1-250	1A62-12	0.90 (22.86)	0.43 (10.92)	0.28 (7.11)	0.11 (2.79)	2.75 (69.85)	0.75 (19.05)	0.05 (1.27)
HDBB-410-1-250	1A62-13	1.25 (31.75)	0.80 (20.32)	0.50 (12.70)	0.19 (4.83)	3.30 (83.82)	1.00 (25.40)	0.09 (2.29)
HDBB-415-1-250	1A62-14	1.75 (44.45)	0.98 (24.89)	0.79 (20.07)	0.28 (7.11)	3.50 (88.90)	1.20 (30.48)	0.15 (3.81)
HDBB-420-1-250	1A62-15	2.35 (59.69)	1.00 (25.40)	1.00 (25.40)	0.35 (8.89)	8.50 (215.90)	1.70 (43.18)	0.15 (3.81)
HDBB-425-1-250	1A62-16	2.65 (67.31)	1.40 (35.56)	1.20 (30.48)	0.53 (13.46)	5.00 (127.00)	1.50 (38.10)	0.15 (3.81)
HDBB-430-1-250	1A62-17	5.25 (133.35)	3.00 (76.20)	1.35 (34.29)	0.55 (13.97)	9.00 (228.60)	3.00 (76.20)	0.14 (3.56)

#### Notes:

- All dimensions in both inches and metric, all angles in degrees
- Dimensions in table: X = Expanded (Minimum) R = Recovered (Maximum)
- Color: Black
- 3M CAGE Code: 20999

Materials Available	Standard Part Supplied with -250 Adhesive		Description
-1 Semi-rigid Flame Retardant Polyolefin	Adhesive (Part #)	Factory Applied	Thermoplastic 80°C
-3 Flexible Polyolefin, Halogen Free	TTS-250	-250	
-6 Flexible Flame Retardant Polyolefin			

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