

BIOFUSE TUBING BICAP (BIO INNOVATION CAP)



NEXT GENERATION BIO-BASED HEAT SHRINK CAP

BICAP (Bio Innovation Cap) is another product developed within the BIOFUSE portfolio as bio-alternative to black ES-Cap line. Delivering identical level of functionalities and performance with the benefit of reducing environmental impact

The technical performance and characteristics of BICAP is designed to offer excellent strain relief, electrical insulation, environmental sealing, high flame retardancy and a high shrink ratio capability, that are equivalent to the performance and characteristics of a two existing TE Connectivity Automotive end stub splice cap product: ES-Cap, in black.

The cap profile allows the product to seal and protect end splices where impact from vehicle applications can be evident, requiring greater protection against exposed stub splices and end of wire terminations.

BICAP will continue to provide excellent sealing capabilities, remaining with the same hot melt adhesive that flows in and around the end wire and splice configurations, to prevent moisture and fluids entering the cap during application, causing potential corrosion and mechanical damage.

Furthermore, BICAP continues to provide excellent strain relief, where there will be rigorous impact to the wire and splice configurations, requiring the highest-level of insulation and protection, ultimately allowing BICAP to operate to the specified performance for the specified in application lifetime.

Excellent flame retardancy remains a key feature of BICAP, that not only prevents damage to the product from the high temperature environmental conditions but prolongs the life and performance of the tubing product.

MATERIAL PROPERTIES AND TEMPERATURE RATING

- Minimum Shrink Temperature: 110 °C. (230°F).
- Full Recovery Temperature: 135 °C. (275°F).
- Continuous Operating Temperature: -40°C to +105°C. (-40°F to 221°F).

SPECIFICATIONS*

- Product Specification: 108-1200081
- Product Application Specification: 114-120038

PRODUCT BENEFITS

- A Heat Shrink cap, designed for end and stub splices on automotive applications, using an irradiated modified Bio-Based polyolefin material.
- The first Bio-Based Heat Shrink Cap product within TE Connectivity's portfolio.
- A cap profile to provide excellent sealing and protection to the end of the splice.
- Excellent environmental sealing with the use of a flowing adhesive liner.
- Excellent strain relief and electrical insulation of the exposed end splices.
- A halogenated, highly flame-retardant cap.
- The cap is supplied black in colour and printed.

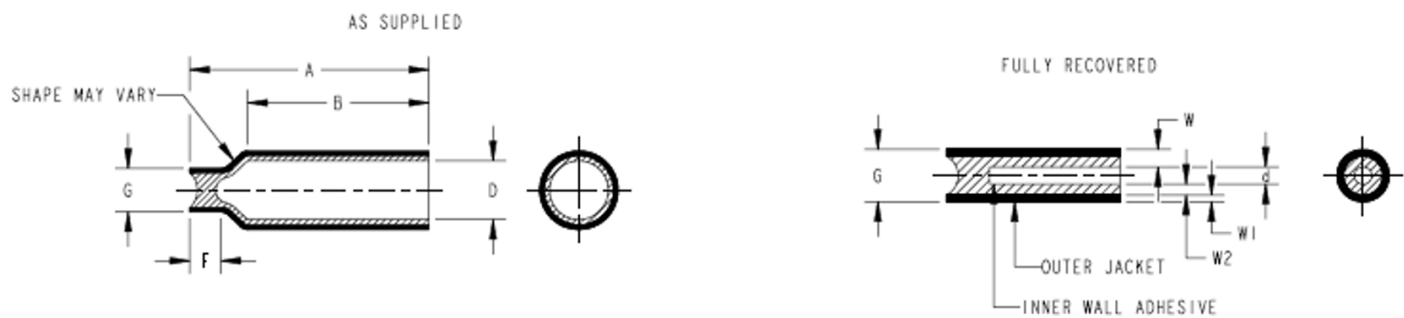
MARKETS AND APPLICATIONS

- Core markets: Automotive and ICT
- Application: Inline splices, end splices and stub splices.

PRODUCT PERFORMANCE

- Excellent environmental sealing using a high melt flowing adhesive liner.
- Moisture and fluid ingress protection.
- Corrosion protection of the end stub splice configurations.
- Excellent strain relief against impact to the end stub splice configurations.
- Excellent electrical insulation.
- A halogenated, highly flame-retardant product.
- 4:1 shrink ratio allowing multiple wire coverage across the sizes of BICAP.
- UL224 certified
- CA Prop 65 compliant.

DIMENSIONS (including drawing)



Size	As Supplied				As Supplied			
	Minimum Expanded Inner Diameter (D)		Minimum Expanded Inner Diameter (D)		Minimum Expanded Inner Diameter (D)		Minimum Expanded Inner Diameter (D)	
	mm	in.	mm	in.	mm	in.	mm	in.
BICAP NO.0	4.57	0.180	1.02	0.040	0.48	0.019	0.86	0.034
BICAP NO.1	5.70	0.224	1.30	0.051	0.64	0.025	1.20	0.047
BICAP NO.2	7.40	0.291	1.70	0.067	0.76	0.030	1.52	0.060
BICAP NO.3	10.80	0.425	2.41	0.095	0.89	0.035	1.91	0.075

Note: Please go to TE.com to see all cut lengths.

ORDERING INFORMATION	
Color	Black
Size selection	NO.0, NO.1, NO.2, NO.3, NO.4 (Standard). NO.2-HW, NO.3-HW (Heavy Wall).
Standard packaging	Product is supplied in standard TE packaging.
Marking	Tubing is surface printed. BI-0 to BI-4 for Standard BICAP. BI-HW-2, BI-HW-3 for Heavy Wall BICAP.
Ordering description	BICAP-NO.1-0-50MM. Product Family-Size-Colour-Cut length. BICAP-HW-NO.2-0-35MM. Product Family-Heavy Wall-Size-Colour-Cut length.

Are you looking to seal out moisture, offer enhanced strain relief, or provide rigorous mechanical protection? Do you need a flame retardant product? Leverage TE Connectivity's (TE) comprehensive portfolio of heat shrink tubing products in a wide range of applications.

Lear more: [TE.com/heatshrinktubing](https://www.te.com/heatshrinktubing)

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