

# BIOFUSE TUBING: BISS (BIO INNOVATION SPLICE SEALING)



# NEXT GENERATION BIO-BASED HEAT SHRINK TUBING

## PRODUCT BENEFITS

- The first Bio-Based Heat Shrink Tube product within TE Connectivity's portfolio
- Designed for inline splice sealing on automotive applications, using an irradiated modified Bio-Based polyolefin material.
- Excellent environmental sealing with the use of a flowing adhesive liner.
- Excellent strain relief and electrical insulation of the wire and splice configurations.
- A halogenated, highly flame-retardant product.
- The tube is supplied black in colour and printed.

BISS (Bio Innovation Splice Sealing) is the first innovative bio-based heat shrink tube within TE Connectivity BIOFUSE tubing portfolio. BISS is the bio alternative to ES2000 and RBK-ILS. Delivering identical level of functionalities and performance with the benefit of reducing environmental impact

BISS 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 two existing TE Connectivity Automotive splice sealing products: ES2000 and RBK-ILS.

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

Furthermore, BISS 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 BISS to operate to the specified performance for the specified in application lifetime.

Excellent flame retardancy remains a key feature of BISS, that not only prevents damage to the tubing 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 +125°C. (-40°F to 257°F).

## SPECIFICATIONS

- Product Specification: 108-1200080.
- Product Application Specification: 114-120036.

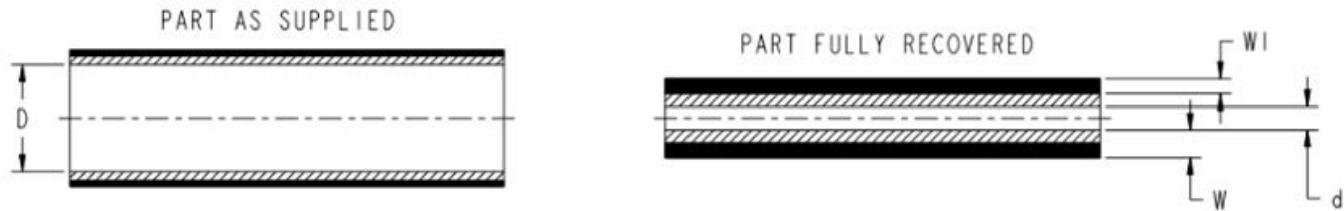
## MARKETS AND APPLICATIONS

- Core markets: Automotive and ICT
- Application: Inline splices and multiple wire configurations.

## PRODUCT PERFORMANCE

- Excellent environmental sealing using a high melt flowing adhesive liner.
- Moisture and fluid ingress protection.
- Prevention of corrosion to the splice and wire application.
- Excellent strain relief against robust impact to the splice and wire configurations.
- Excellent electrical insulation.
- Halogenated, highly flame retardant.
- 4:1 shrink ratio allowing multiple wire coverage across the sizes of BISS.
- 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 Recovered Jacket Wall (W1)		Minimum Recovered Total Wall (W)	
	mm	in.	mm	in.	mm	in.	mm	in.
BISS NO.0	4.50	0.177	1.02	0.040	0.48	0.019	0.86	0.034
BISS NO.1	5.75	0.226	1.27	0.050	0.64	0.025	1.20	0.047
BISS NO.2	7.50	0.295	1.65	0.065	0.76	0.030	1.52	0.060
BISS NO.3	11.00	0.433	2.41	0.095	0.89	0.035	1.89	0.074
BISS NO.4	18.30	0.720	4.45	0.175	1.04	0.041	2.41	0.095
BISS NO.6	8.30	0.327	1.65	0.065	0.76	0.030	1.52	0.060
BISS NO.8	12.25	0.482	2.41	0.095	0.89	0.035	1.89	0.074
BISS NO.9	16.00	0.630	4.45	0.175	1.04	0.041	2.41	0.095
BISS NO.11	9.00	0.354	2.29	0.090	0.84	0.033	1.78	0.070

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

### ORDERING INFORMATION

Color	Black
Size selection	Standard size: NO.0, NO.1, NO.2, NO.3, NO.4. Non-standard sizes: NO.6, NO.8, NO.9, NO.11
Standard packaging	Product is supplied in standard TE packaging
Marking	The tubing is surface printed. BI-0 to BI-11. The initials of the product followed by the size
Ordering description	BISS-NO.1-0-50mm. Product Family-Size-Colour-Cut length. Please refer to te.com.

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.

**Learn more: [TE.com/heatshrinktubing](https://TE.com/heatshrinktubing)**

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