



Low Voltage Heat Shrink Joints

91-AHMC 6 and 91-AHMC 6/5 – Inline Joint Series with Heat Shrink Butt Connectors



1. Product Description

3M™ 91-AHMC series with heat shrink butt connectors are made from cross linked polyolefin tubing which is inside coated with hot melt adhesive. As the adhesive melts and the tubing shrinks, a perfect watertight seal is formed.

2. Applications

3M™ 91-AHMC Series Low Voltage Heat Shrink kits have been developed for use on 4-core and 5-core non shielded, non-armoured, polymeric insulated cables up to 0,6 kV. The application incorporates electrical insulation and mechanical protection of joints with 3M Heat Shrink Butt Connectors (MH18BCK, MH14BCK and MH10BCK). They can be used for indoor and outdoor applications.

Features

- Quick and easy installation
- Inner heat shrink tube with hot melt adhesive and integrated connector
- Accommodates a range of cross sections from 1 mm² up to 6 mm²
- Designed for 4-core and 5-core cables
- Excellent watertight sealing
- High mechanical protection
- Excellent electrical insulation properties
- Good resistance against UV-radiation, alkaline earths and chemical agents

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3. Typical Properties

3.1 Testing

3M™ 91-AHMC 6 and 91-AHMC 6/5 kits with heat shrink butt connectors have been tested according to EN 60529:1991 and are classified as IP67.

4. User Information

4.1 Selection Guide

Kit Description	Cable Cross Section Range N(A)YY / N(A)2YY	Tube Dimensions				Approx. Joint Length
		Inner Tube		Outer Tube		
		E	R	E	R	
	[mm²]	[mm]	[mm]	[mm]	[mm]	[mm]
91-AHMC 6	3 x 1 – 4 x 6	6,0 - yellow 5,0 - blue 4,5 - red	2,5 - yellow 1,5 - blue 1,2 - red	22	6	130
91-AHMC 6/5	5 x 1 – 5 x 6	6,0 - yellow 5,0 - blue 4,5 - red	2,5 - yellow 1,5 - blue 1,2 - red	33	8	180

E = Expanded Diameter

R = Recovered Diameter

4.2 Kit Content

- Thick wall, adhesive coated, outer protection tube
- Heat shrink butt connectors
- Detailed installation instruction

4.3 Storage

3M™ 91-AHMC Series Low Voltage Heat Shrink kits have a shelf life of at least 10 years when stored at ambient temperatures with a humidity level <75 % in the original sealed bag. During storage and prior to application the kits should be stored away from heat sources.

4.4 Safety Note

For heat shrink applications a heat source is required, which must be handled with care. Avoid skin contact with hot material.

5. Additional Information

To request additional product information, see address below.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluates the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application.

Values presented have been determined by standard test methods and are average values not meant to be used for specification purposes.

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