

# RAYCHEM LOW VOLTAGE HEAT SHRINK JOINTS APKJ

FOR SOLAR APPLICATIONS UP TO 3 kV



# PROVIDE EXCELLENT ELECTRICAL PERFORMANCE AND LONG SERVICE LIFE WITH HEAT SHRINK MEDIUM WALL INSULATION TUBING MWJS

# **KEY FEATURES**

- High shrink ratio, covering a wide application range from cable insulation outer diameter (OD) 12 mm to 63 mm
- Simplified product type selection
- Continuous operating temperature rating up to 105°C (221°F)
- Excellent in-field electrical and mechanical performance

TE Connectivity's (TE) Raychem APKJ heat shrink joints are suitable for a single core to 5 cores of unscreened insulating solar cable, up to 3 kV. These highly shrinkable tubings use three sizes to cover the full regular cable size range, with insulation outer diameter (OD) from 12 mm to 63 mm. The high-sealing performance mastic S1061 offers reliable protection for solar cable connections.

Our Raychem APKJ joints can be easily installed in the field using a gas torch or hot air. The main body used in APKJ is high performance Heat Shrink Medium Wall Insulation Tubing (MWJS), with a continuous operating temperature rating up to 105°C (221°F).

This provides excellent field-proven mechanical and electrical performance.

Our Raychem APKJ joints are tested in accordance with JB/T 7830-2006, ensuring decades of operating life.

## **APPLICATIONS**

- Applicable for single to 5-cores un-screened cables, up to 3 kV
- Cover cable insulation outer diameter (OD) from 12 mm to 63 mm
- Sealing and protection of solar cable connections

## RELEVANT STANDARDS AND TESTING

• Tested in accordance with JB/T 7830-2006

### **ORDERING INFORMATION**

TCPN	Product Description	Series	Cable Insulation OD Min. mm (inch)	Cable Insulation OD Max. mm (inch)
2410583-1	APKJ-1.8-A-3	Heat Shrink Joint	12 (0.472)	28 (1.102)
2410583-2	APKJ-1.8-B-3	Heat Shrink Joint	20 (0.787)	35 (1.378)
2410583-3	APKJ-1.8-C-3	Heat Shrink Joint	30 (1.181)	63 (2.480)

DESIGN DATA			
Material Type	Heat Shrink		
Material Color	Red		
Material Properties	Polyolefin		
Operation Temperature Range	-35°C~105°C (-31°F~173°F)		

## **TECHNICAL REPORT**

Electrical	Performance	
AC Withstand	8 kV / 5 min	
Thermal Cycle in Air	4.5 kV / 60 cycles	
Thermal Cycle Underwater	10 cycles	
Thermal Short Circuit (Conductor)	16.4 kA / 2 s	
Thermal Short Circuit (Screen)	2.73 kA / 1 s	
Dynamic Short Circuit	58 kA / 10 ms	

### Learn more: TE.com/energy

© 2023 TE Connectivity. All Rights Reserved. EPP-4211-DDS-6/23

TE, TE Connectivity, TE connectivity (logo), EVERY CONNECTION COUNTS, Raychem are trademarks owned or licensed by TE Connectivity. Other logos, product and company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions, specifications, and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications, and/or information. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application. Connect with us: TE.com/energy-contact

