

3M Cold Shrink Sealing Kits

A **valmont** TOOMPANY



Features: Installation features make it the preferred coax connection seal. Simple installation requires only installers hands. Good thermal stability. Excellent weathering properties, and abrasion reistance.

Construction: Each kit includes a cold shrink EPDM rubber sleeve which is factory-expanded and placed on a removable plastic core. The natural tendency of the rubber sleeve to return to its original diameter provides constant radial pressure, forming a reliable, water-resistant seal.

Design Criteria: Reliable seal against water. Tough, resilent rubber holds pressure seal, even after exposure. Broad application range, can lower inventory costs. Easily removed for inspections or disconnects. Resistant to fungus, ozone, akalies and acids.

Part #	Application	Weight
CXS-1	1/4" - 7/8" Cable to 1/4" - 7/8" Cable	0.40 lb.
CXS-2	1/4" - 1-5/8" Cable to 1-1/4" -1-5/8" Cable 1/4" - 1-5/8" Cable to Antenna or Surge Arrestor	0.65 lb.
CXS-4	1/4" - 7/8" Cable to Antenna or Surge Arrestor	0.30 lb.



Cold Shrink Sealing Kit CXS Series

EPDM Rubber Splices for Coaxial Cable Connections

Cold Shrink Sealing Kits CXS Series offer a safe, easy way to reliably seal connections on coaxial cables. Cold Shrink is ideal for wireless communications towers and other exposed coaxial interfaces.

Each kit includes a cold shrink EPDM rubber sleeve which is factory-expanded and placed on a removable plastic core. Simply prepare the connection, position the tube and unwind the pre-scored core. The natural tendency of the rubber sleeve to return to its original diameter provides constant radial pressure, forming a reliable, water-resistant seal. All without heat, special tools or a time-consuming



installation procedure. And, it's easily removed when system maintenance is required.

Unique Benefits

Cold Shrink Sealing Kits CXS Series offer real advantages over other cable sealing methods:

- Reliable seal against water.
- Tough, resilient rubber holds pressure seal, even after exposure.
- Broad application range; can lower inventory costs.
- Eliminates need for heat source or special tools.
- Reduces installation time for sealing jobs.
- Easily removed for inspections or disconnects.
- Resistant to fungus, ozone, alkalies and acids.
- Constant radial pressure helps connectors stay together in wind and vibration.

Applications

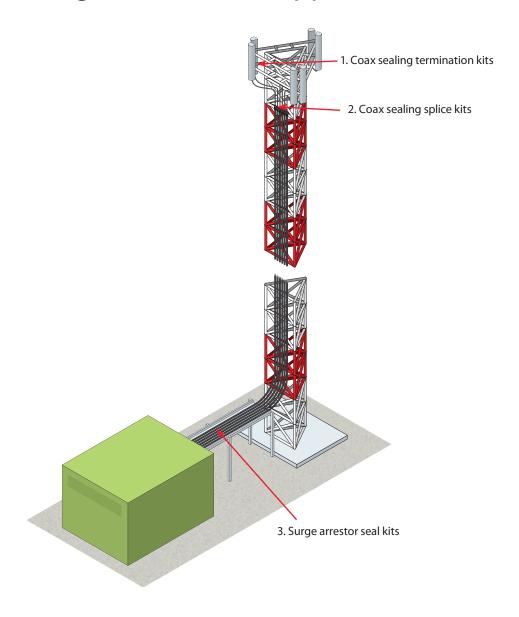
Cold Shrink Sealing Kits CXS Series can be used for sealing of coax cables with Type N or 7/16 DIN connectors.

- Installation features make it the preferred coax connection seal:
- Simple installation requires only installer's hands.
- · Good thermal stability.
- Excellent weathering properties.
- · Excellent abrasion resistance.

Tested Reliable

Since it was first developed over 30 years ago, Cold Shrink technology has proven reliable in extreme conditions. Cold Shrink has been successfully tested to the water seal requirements of ANSI Standard C119.1 and NEMA Publication No. CC-P1 (12.0" and 36.0" water depths). The Cold Shrink Sealing Kit is RoHS compliant.*

Cold Shrink Sealing Kit CXS Series Application



Cold Shrink Sealing Kit CXS Series Product Sealing of DIN and Type N Connectors

Feed	der Cable								Termination*
		1/4"	3/8"	1/2"	5/8"	7/8"	1 1/4"	1 5/8"	
	1/4"								
	3/8"		CXS-1						
Jumper Cable	1/2"						CXS-2		CXS-4
	5/8"								
	7/8"						;		
	1 1/4"						w/o foam > 7/8"		CSX-2
	1 5/8"								CJAZ

Specifications

Product

Cold Shrink Coax Sealing Kits contain EPDM rubber sleeves that are applied without heat or flame. Where cable-to-connector diameter ratios dictate the need, foam strips serve as a dimensional spacer between smaller coax cables and the minimum sealing diameter of the cold shrink tubing. The cold shrink tubing assembly serves as an outer seal which seals on the O.D. of the foam strip or coax cable. The coax cable seal kit provides a moisture seal when installed on the coax cable/connector combinations listed in the "Application Chart." It is compatible with the coax cables and N or 7/16 DIN connectors.

Performance Tests

One of the critical characteristics for cold shrink tubing is "permanent set," which is the percentage of the tubing's original stretched deformation not recovered in a given period of time after the deforming force (plastic support core) has been removed. Both accelerated and long-term permanent set in the product's expanded state is tested to see that the rubber retains sufficient elastic memory. Field experience, combined with laboratory test data, has shown that the EPDM cold shrink rubber compounds exhibit excellent long-term memory characteristics. Because the coax cable/connector is larger than the original inside diameter of the cold shrink tubing, a constant force exists between the cable and cold shrink tubing. Cold Shrink Sealing Kits CXS Series tubing will seal within minutes at 30° F (-1° C).

Physical Properties

· riysicar rioperties					
Value*					
Black					
Weight gain 1.8%					
Passed+					
Passed					

Application Chart

Kit Number	Sealing Application Sizes for DIN or Type N Coax Cable Connectors
CXS-1	1/4" - 7/8" Cable to 1/4" - 7/8" Cable
CXS-2	1/4" - 1 5/8" Cable to 1 1/4" - 1 5/8" Cable 1 1/4" - 1 5/8" Cable to Antenna or Surge Arrestor
CXS-4	1/4" - 7/8" Cable to Antenna or Surge Arrestor

RoHS: compliant with EU RoHS Directive (2005/95/EC)

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under RoHS.

^{* -} Typical values, not intended for specification purposes.

^{+ -} No visible cracks or crazing revealed following 2,000-hour exposure. Rubber samples maintained more than 80% of original tensile strength.