

3M™ Cold Shrink Connector Insulators 8420 and 8430 Series

3M™ Cold Shrink Connector Insulators 8420 and 8430 Series are designed using 3M's proprietary cold shrink delivery system. Products are supplied prestretched on a removable core for efficiency and ease of installation. Removal of the core (unwinding) after positioning the splice allows the product to shrink into position forming a moisture-tight seal. The live memory action of the specially formulated EPDM material promotes a permanent, durable environmental seal and insulation, with a typical operating temperature range from -40–194°F (-40–90°C).

The 8420 insulator meets requirements of ANSI C119-1 and Western Underground Guide 2.14 for secondary splices rated up to 1 kV.

Important: Use insulation jacket or connector O.D. for final ordering criteria.

* Mastic pads included for cable O.D. build-up. ** Kit contains adapters. *** These sizes are listed for availability only and are not designed to be used as primary insulation. These tubes are for conduit sealing and breakouts. ****Maximum connector length: 5.625"

"Point of Purchase" packaging designated by "P". Example: 8423-6P

Voltage	1000 V or less
Number of Conductors	Single Conductor
Cable Type	Low Voltage Single Conductor Insulated Cable
Splice Type	Cold Shrink
Applications	Primary electrical insulation for all solid dielectric (rubber and plastic) insulated wire and cable splicing rated to 1000 V. Good for repairs and environmental sealing for communication and other non-electrical applications.
RoHS 2011/65/EU	Yes
Agency Approvals	ANSI C1191.1



Order No.	UPC	Typical Conductor Size	Min. Cable Dia. for Seal	Max. Dia. Insulator Cable or Connector Covers	Max. Connector Length	Relaxed Tube Length	Case Qty.
8423-6	054007-42146	6-4 AWG (14-16 mm ²)	0.31" (7,8 mm)	0.56" (14,2 mm)	2.0" (50,8 mm)	6.0" (152,4 mm)	10
8423-6P	054007-42864	6-4 AWG (14-16 mm ²)	0.31" (7,8 mm)	0.56" (14,2 mm)	2.0" (50,8 mm)	6.0" (152,4 mm)	10
8424-8**	054007-42390	10-1/0 AWG (6-16 mm ²)	0.10" (2,5 mm)	0.82" (20,9 mm)	3.0" (76,2 mm)	8.0" (203,2 mm)	10
8424-8P	054007-42865	10-1/0 AWG (6-16 mm ²)	0.10" (2,5 mm)	0.82" (20,9 mm)	3.0" (76,2 mm)	8.0" (203,2 mm)	10
8425-8	054007-42391	2-1/0 AWG (35-50 mm ²)	0.40" (10,1 mm)	0.82" (20,9 mm)	3.0" (76,2 mm)	8.0" (203,2 mm)	10
8425-8P	054007-42866	2-1/0 AWG (35-50 mm ²)	0.40" (10,1 mm)	0.82" (20,9 mm)	3.0" (76,2 mm)	8.0" (203,2 mm)	10
8426-9	054007-34457	2/0 AWG-250 kcmil (70-125 mm ²)	0.55" (13,9 mm)	1.18" (30,1 mm)	5.0" (127,0 mm)	9.0" (228,6 mm)	10
8426-9M*	054007-43436	2-4/0 AWG (30-90 mm ²)	0.40" (10,1 mm)	1.18" (30,1 mm)	5.0" (127,0 mm)	9.0" (228,6 mm)	10
8426-9P	054007-42867	2/0 AWG-250 kcmil (70-125 mm ²)	0.55" (13,9 mm)	1.18" (30,1 mm)	5.0" (127,0 mm)	9.0" (228,6 mm)	10
8426-11	054007-34458	2/0 AWG-250 kcmil (70-125 mm ²)	0.55" (13,9 mm)	1.18" (30,1 mm)	7.0" (177,8 mm)	11.0" (279,4 mm)	10
8427-6***	054007-09915	-	0.67" (16,8 mm)	1.38" (35,1 mm)	2.0" (50,8 mm)	6.0" (152,4 mm)	10
8427-12	054007-34459	250-400 kcmil (125-200 mm ²)	0.67" (16,8 mm)	1.38" (35,1 mm)	8.0" (203,2 mm)	12.0" (304,8 mm)	10
8427-12P	054007-42868	250-400 kcmil (125-200 mm ²)	0.67" (16,8 mm)	1.38" (35,1 mm)	8.0" (203,2 mm)	12.0" (304,8 mm)	10
8427-16	054007-34460	250-400 kcmil (125-200 mm ²)	0.67" (16,8 mm)	1.38" (35,1 mm)	12.0" (304,8 mm)	16.0" (406,4 mm)	10
8428-6***	054007-09916	-	0.95" (24,1 mm)	1.94" (49,2 mm)	2.0" (50,8 mm)	6.0" (152,4 mm)	10

3M™ Cold Shrink Connector Insulators 8420 and 8430 Series (continued)

Order No.	UPC	Typical Conductor Size	Min. Cable Dia. for Seal	Max. Dia. Insulator Cable or Connector Covers	Max. Connector Length	Relaxed Tube Length	Case Qty.
8428-6M	051128-53828	450-800 kcmil (240-400 mm ²)	0.95" (24,1 mm)	1.94" (49,2 mm)	2.0" (50,8 mm)	6.0" (152,4 mm)	50
8428-8	051128-53711	500-800 kcmil (300-400 mm ²)	0.95" (24,1 mm)	1.94" (49,2 mm)	3.0" (76,2 mm)	8.0" (203,2 mm)	25
8428-12	054007-09056	500-800 kcmil (300-400 mm ²)	0.95" (24,1 mm)	1.94" (49,2 mm)	8.0" (203,2 mm)	12.0" (304,8 mm)	10
8428-12M	054007-43746	500-800 kcmil (300-400 mm ²)	0.95" (24,1 mm)	1.94" (49,2 mm)	8.0" (203,2 mm)	12.0" (304,8 mm)	10
8428-12P	054007-42869	500-800 kcmil (300-400 mm ²)	0.95" (24,1 mm)	1.94" (49,2 mm)	8.0" (203,2 mm)	12.0" (304,8 mm)	10
8428-18	054007-34461	500-800 kcmil (300-400 mm ²)	0.95" (24,1 mm)	1.94" (49,2 mm)	14.0" (355,6 mm)	18.0" (457,2 mm)	10
8429-6***	054007-09917	-	1.27" (32,2 mm)	2.67" (67,8 mm)	2.0" (50,8 mm)	6.0" (152,4 mm)	10
8429-9****	054007-09931	900-1000 kcmil (500 mm ²)	1.27" (32,2 mm)	2.67" (67,8 mm)	5.0" (127,0 mm)	9.0" (228,6 mm)	10
8429-9M	054007-42018	900-1000 kcmil (500 mm ²)	1.27" (32,2 mm)	2.67" (67,8 mm)	5.0" (127,0 mm)	9.0" (228,6 mm)	10
8429-12	054007-42389	900-1000 kcmil (500 mm ²)	1.27" (32,2 mm)	2.67" (67,8 mm)	8.0" (203,2 mm)	12.0" (304,8 mm)	10
8429-15	054007-44198	900-1000 kcmil (500 mm ²)	1.27" (32,2 mm)	2.67" (67,8 mm)	11.0" (279,4 mm)	15.0" (381,0 mm)	10
8429-18	054007-34462	900-1000 kcmil (500 mm ²)	1.27" (32,2 mm)	2.67" (67,8 mm)	14.0" (355,6 mm)	18.0" (457,2 mm)	10
8430-9***	054007-42147	1250-2000 kcmil	1.68" (42,6 mm)	3.69" (93,7 mm)	5.0" (127,0 mm)	9.0" (228,6 mm)	10
8430-18	054007-42388	1250-2000 kcmil	1.68" (42,6 mm)	3.69" (93,7 mm)	14.0" (355,6 mm)	18.0" (457,2 mm)	10



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