

MS²™ Splicing Modules and Accessories



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The MS² Super-Mini 25-pair and MS² Super Mate 25-pair Splicing Modules provide the reliability of soldered connections, the efficiency of multi-pair splicing, plus the proven performance of MS² splicing system.

The MS² 4000TR Series Super-Mini and 4005TR Series Super Mate Modules are the basic components of MS² Modular System Splicing from 3M™. The modules are building blocks of a systematized splicing technology that can reduce installation time of outside or inside plant and in addition can reduce reworking demands, and save both time and effort in your construction and maintenance programs. To make your job easier, all MS² modules are now transparent.

U-shaped contacts enable solder-equivalent connections

The MS² 4000TR 25-pair Series Super-Mini and MS² 4005TR Super Mate Modules feature an array of U-shaped, phosphor-bronze contacts and stainless steel cut-off blades.

As a module is crimped, each contact strips the insulation from the positioned wire and securely grips the conductor. During this crimping operation, the cut-off blades inside each module trim the excess wire.

A single crimp completes a gas-tight connection on all 25-pairs in the module.

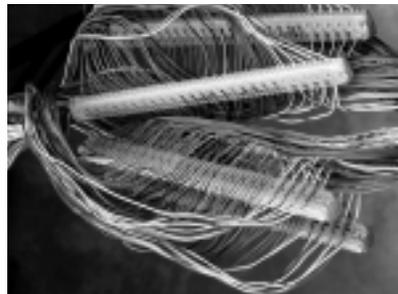
It's simple and fast, because there's no need to strip or trim any of the individual pairs.

Pair testing is easy

Test entry ports on the front side of all modules provide access for testing individual pairs. All tests can be accomplished without opening the module, stripping insulation, or otherwise interrupting service.

The rugged design and construction of the modules can withstand crimping and reopening to facilitate transfers or cable rearrangements.

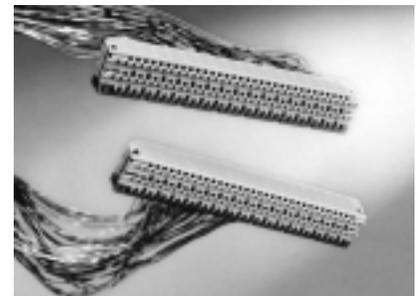
4000-G/TR Super-Mini Splicing Module



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The new 4000-G/TR Super-Mini Splicing Module not only meets CAT-5 requirements of the TIA/CIA 568A and the ISO/IEC 11801:1995 for high-speed connectors, but it also delivers in place performance withstanding extended exposure to various conditions of extremely high humidity, including water immersion, while maintaining insulation resistance and circuit integrity.

4005-DPM/16 16-Pair Pluggable Module

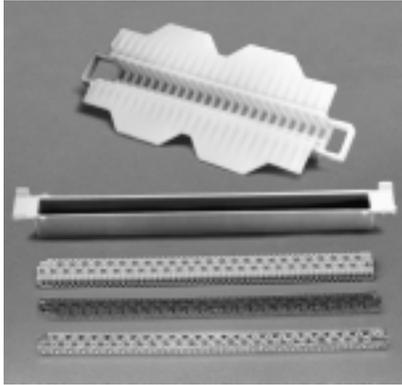


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The MS² 4005-DPM/16 Pluggable Module is a fire-retardant, 16-pair dry pluggable module designed for installation and switching of cable pairs within the central office (CO) or PBX room. This module enables personnel to rearrange and transfer working circuits without interrupting service.

The 4005-DPM/16 module gives technicians the ability to perform cutovers quickly, at low cost, and without service interruption. Plus, each cutover is easily reversed. Modules are simply plugged or unplugged in 16-pair groups.

4000-DWP/TR Module with Sealant Box



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The 4000-DWP/TR 25-pair module combines a 4000-D/TR Super-Mini Module with a 4075-S Sealant Box. This combination offers waterproof splicing of copper in buried, aerial, and underground applications. The module also makes reentry into splices encapsulated with reenterable gel much easier. Because the sealant box prevents encapsulants from filling the wire channels and test entry ports, modules may be tested at any time once the sealant box is removed.

The term “waterproof” applies to this system as determined according to 3M™ Test Method No. TP0200-05. User should write for this method to determine suitability for application.

The MS™ 4008D/TR 25-pair Series Super-Mini Modules are similar to the 4000TR Series, except that the cut-off blades have been eliminated from the bottom of the modules. This allows the run of through wires to be half-tapped without cutting the conductors. The wires in the base are electrically connected, but are not cut off.

Both 4000TR and 4008TR Series Modules are available dry, or encapsulated.

RUS Listed

4075-S Sealant Box

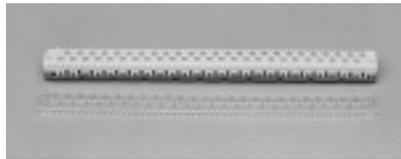


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The 4075-S Sealant Box is a molded PBT polyester box designed to be used with the MS² 4000 Series Super-Mini Modules. One applicator tool is included with every order.

RUS Listed

4005-DPM/TR Super Mate Pluggable Module



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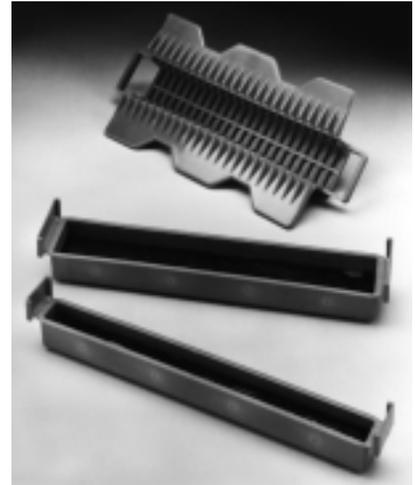
4005-DPM/TR 25-pair Series Super Mate Pluggable Modules increase productivity and reduce expenses by avoiding the time- and cost-intensive job of cutting and resplicing conductors for rearrangement, addition, and removal of apparatus and stubs.

The 4005-DPM/TR Series Super Mate Modules plug into other Super Mate Modules and onto the top of the 4000-D/TR Super-Mini Module Series for bridging applications.

The 4005-CBM/TR Series Modules is for bridging to encapsulated 4000-C Series Modules, as a bridge only.

The UL Listed 4005-DPM/FR is for applications requiring a flame-retardant module.

4077 Series Sealant Boxes



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Designed for use with MS² 4005-DPM/TR Super Mate Modules and/or in combination with 4000-D/TR Modules. The Sealant Boxes provide waterproof protection in PIC splicing applications where one or more modules are plugged together. One applicator tool is included with each box of 12 sealant boxes.

The term “waterproof” applies to this system as determined according to 3M™ Test Method No. TP0200-05. User should write for this method to determine suitability for application.

RUS Listed

4077-A One 4005-DPM/TR Module
4077-B One 4000-D/TR and one 4005-DPM Module
4077-C Two 4005-DPM/TR Modules
4077-D Three 4005-DPM/TR Modules



Product Referral Generator

Buried Closures	pg. 128
Compounds/Encapsulants	pg. 179
Shield Bonding	pg. 197
SLiC™ Aerial Closures	pg. 113
K&B™ Vault & Riser Closures	pg. 167
Encapsulated Closures	pg. 126

Ordering Information for Sealant Boxes

Product Number	4000DWP/TR	4075-S	4077-A	4077-B	4077-C	4077-D
Packaging kg (lbs.)/cs.	12/box, 120/cs. 7.5 (16.6)	12/box, 120/cs. 4.1 (9.1)	12/box, 120/cs. 4.9 (10.8)	12/box, 120/cs. 5.4 (12)	12/box, 120/cs. 6.0 (13.3)	12/box, 120/cs. 7.5 (16.6)
Minimum Order	120 each	120 each [520653]	120 each [526748]	120 each [526749]	120 each [526750]	120 each [526752]
UPC	051138-57574	054007-71544	054007-71545	054007-71546	054007-71547	054007-71548

Specifications for all MS²™ 4000/4005/4008 Series Splicing Modules (Super-Mini and Super Mate)

Maximum Insulation O.D.	
Metric (mm)	1.65 [4000G/TR has maximum insulation O.D. of 1.35 mm (0.053")]
Inches	0.065
Cable Type	
PIC, Pulp or Paper	
AWG	22-28
Metric (mm)	0.7-0.3

MS² 4000 Series Straight Splicing Modules



Splicing Module	4000-D/TR	4000-C/TR	4000-G/TR	4000-DCO	4000-DT/TR	4000-GT/TR

Modular Type

	RUS Listed Dry transparent	Filled transparent	Gelled transparent	Dry/flame- retardant	Dry/test transparent	Gelled transparent
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Colors

Cover	Transparent	Transparent	Transparent	Gray	Transparent	Transparent
Body top	Yellow	Yellow	Yellow	Gray	Yellow	Yellow
Body bottom	Dark gold	Dark gold	Dark gold	Gray	Dark gold	Dark gold
Base	Transparent smoked	Transparent smoked	Transparent smoked	Gray smoked	Transparent	Transparent smoked

Sealant Boxes for 4000 Modules



	4075-S	N/A	N/A	N/A	4075-S	N/A
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Ordering Information

Packaging kg (lbs.)/cs.	12/bag, 120/cs. 2.95 (6.5)	12/bag, 120/cs. 3.7 (8.3)	12/bag, 120/cs. 3.7 (8.3)	12/bag, 120/cs. 2.9 (6.4)	12/bag, 120/cs. 2.8 (6.3)	12/bag, 120/cs. 3.7 (8.3)
Minimum order	120 each	120 each	120 each	120 each [747127]	120 each [316711]	120 each
UPC	054007-71338	054007-71367	051138-70906	054007-30944	054007-71368	051138-88337

MS²™ 4005 Series Pluggable/Bridge Splicing Modules



Splicing Module	4005-CBM/TR	4005-DPM/FR	4005-DPM/16
Module Type			
	Filled bridge transparent	Dry flame-retardant	Dry, CO switch flame-retardant
Colors			
Cover	Transparent	Gray	Gray
Body top	Yellow	Gray	Gray
Body bottom	Blue	Dark blue	Dark blue
Insulator	Red	Maroon	Maroon
Ordering Information			
Packaging kg (lbs.)/cs.	12/bag, 120/cs. 5.1 (11.3)	12/bag, 120/cs. 3.5 (7.8)	12/bag, 120/cs. 2.4 (5.2)
Minimum order	120 each	120 each [528522]	120 each
UPC 054007-	71369	17352	56511

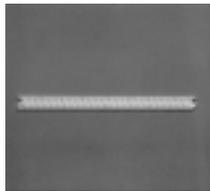
Note: 4077-A protects one 4005-DPM Module, 4077-B protects one 4000-D and one 4005-DPM Module, 4077-C protects two 4005-DPM Modules, 4077-D protects three 4005-DPM Modules.

Ordering Information for MS² 4008 Series Splicing Modules



Splicing Module	4008-D/TR	4008-C/TR	4008-G/TR	4008-DCO
Module Type				
	RUS Listed Dry transparent	Filled transparent	Gelled transparent	Dry flame-retardant
Colors				
Cover	Transparent	Transparent	Transparent	Gray
Body top	Yellow	Yellow	Yellow	Gray
Body bottom	Green	Green	Green	Gray
Base	Transparent smoked	Transparent smoked	Transparent smoked	Gray
Sealant Boxes for 4008 Modules 	4075-S after cut out	N/A	N/A	N/A
Ordering Information				
Packaging kg (lbs.)/cs.	12/bag, 120/cs. 2.9 (6.6)	12/bag, 120/cs. 3.8 (8.2)	12/bag, 120/cs. 2.9 (6.6)	1/bag, 12/box 120/cs. 2.9 (6.3)
Minimum order	120 each [322332]	120 each	120 each	120 each
UPC	054007-71372	054007-71371	051138-89336	054007-30945

MS²™ Components and Accessories



1. 25



2. 26



3. 27



4. 28



5. 29

#	Product Description	Pkg. kg (lbs.)/cs.	Min. Order	UPC
1. 4003-D/TR Super-Mini Module Cover (Transparent)				
	The 4003-D/TR Super-Mini Module Cover is identical to the 4003-D Cover with the exception that it is clear to allow for the visual inspection of conductors.	12/bag 120/cs. 0.6 (1.4)	120 each [322333]	054007-71596
2. 4004-D/TR Super-Mini Module Base				
	The 4004-D/TR Super-Mini Module Base is identical to the 4004-D Super-Mini Module Base with the exception that it is smoked transparent.	12/bag 120/cs. 0.6 (1.4)	120 each	054007-71597
3. 4004-DT/TR Super-Mini Test Base (Transparent)				
	The 4004-DT/TR Super-Mini Test Base is identical to the 4004-DT Super-Mini Test Base with the exception that it is smoked transparent.	12/bag 120/cs. 0.6 (1.3)	120 each [322334]	054007-71654
4. 4000-D/TR/36PTJ Preterminated Jumper Assemblies (transparent cover)				
	Consists of 24 AWG, PIC, unsheathed 25-pair binder group terminated on each end with a 4000-D/TR body/cover combination. Each assembly comes packed with two each of the 4000-D/TR base and adapter. The 4000-D/PTJ Series is available in two lengths: 91.4 cm (36") and 182.8 cm (72"). This product makes restoration of cut or damaged cables much easier and faster.	12 assy./kit 12/cs. 36" 2.63 (5.8) 72" 3.8 (8.5)	12 each 12 each [525951] 12 each	054007-63839 051138-58248
4000-D/TR/18PTJ Preterminated Jumper Assemblies (not pictured)				
	Consists of 24 AWG, PIC, unsheathed 25-pair binder group terminated on each end with a 4000-D body/cover combination. Each assembly comes packed with two each of the 4000-D Base and Adapter. The 4000-D/PTJ Series is available in one length: 45.7 cm (18"). This product makes restoration of cut or damaged cables much easier and faster.	12/cs. 2.02 (4.47)	12 each	051138-58247
5. 4005-DPM/TR/36PTJ Preterminated Jumper Assemblies (transparent cover)				
	The assemblies consist of 24 AWG, PIC, unsheathed 25-pair binder group terminated on each end with a 4005-DPM Module. It enables quick restoration of cut cable and is available in 91.4 cm (36") and 182.9 cm (72") lengths with transparent covers.	12 assy./kit 12/cs. 36" 2.63 (5.8) 72" 3.8 (8.5)	12 each 12 each 12 each [316712]	054007-68254 054007-68255

MS²™ Components and Accessories (continued)



#	Product Description	Pkg. kg (lbs.)/cs.	Min. Order	UPC
6. 4005-DPM/BTP Bottom Test Plug				
	The 4005-DPM/BTP is a test plug assembly consisting of a 4005-DPM module attached by a 60.9 cm (24") jumper to a module designed to plug into the bottom of a Super-Mini module. This assembly enables reentry into any Super-Mini/Super Mate combination splice without interruption of service.	1/bag 12/cs.	12 each [528524]	054007- 17718
7. 4039 Marking Pen				
	Use the 4039 Marking Pen for permanent marking of MS ² modules for easy identification at a later date.	12/box 144/cs. 0.5 (1.1)	144 each [315423]	054007- 17094
8. 4078-C Half-Tap Cover				
	Used to protect wire ends after the half-tap has been cut out of the MS ² Super-Mini 4008 Half-Tap Module in pulp/paper and pressurized PIC cable and vault splices.	12/bag 120/cs. 1.4 (3.1)	120 each [315368]	054007- 34167
9. 4041-HH Hand Held Splice Tool				
	The Hand Held Splice Tool holds a module in place where space and slack is limited. The hand held can splice any 4000 or 4005 series module. The 4255 Hand Presser must be used with the hand held to ensure adequate crimping forces to seat and cut off conductors in the modules.	1/cs. 1.3 (2.9)	1 each [504004]	054007- 27823



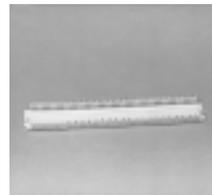
6. 30



7. 31



8. 32



9. 33