

## Tooling Guide for AS7928 Terminals 26 to 10 AWG (Class 1)

**M7928/1-1 to -69, Sizes 26 to 10 AWG**  
 Type: Class 1 Insulated Terminals, Insulation Restricting, Insulation: Nylon, UL 94V-2  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Nickel, QQ-N-290, or Tin, ASTM B-545  
 Max Temp Rating: 105° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M7928/1-1	#26	0.15	2	.026-.055 (0.66-1.40)	Yellow w/ Black Stripe	Y501 Die	X511 Die	--	--
M7928/1-2						Y501 Die	X511 Die	--	--
M7928/1-3						Y501 Die	X511 Die	--	--
M7928/1-4						Y501 Die	X511 Die	--	--
M7928/1-5						Y501 Die	X511 Die	--	--

**M7928/4-101 to -159, Sizes 26 to 10 AWG**  
 Type: Class 1 Insulated Terminals, Radiation Resistant, Insulation: Polyvinylidene fluoride (PVF2)  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 150° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M7928/4-101	#22-18	0.26-0.96	6	.140 (3.56)	Clear w/ Red Ring	Y501 Die	X511 Die	--	AMT4001

**M7928/7-1 to -11, Sizes 22 to 14 AWG**  
 Type: Class 1 Uninsulated Terminals, Ring Tongue, Insulation: N/A  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 175° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M7928/7-1	#22-18	0.26-0.96	2	Uninsulated	--	Y501 Die	X511 Die	--	GMT277

**MS17143-1 to -21, Sizes 22 to 10 AWG**  
 Type: Class 1 Insulated Terminals, Rectangular Tongue, Insulation: Nylon, UL 94V-2  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 105° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
MS17143-1	#22-18	0.26-0.96	8	.140 (3.56)	Red	Y501 Die	X511 Die	--	AMT4001



**MS20659-101 to -106, -125 to -128, -161 to -166, Sizes 22 to 10 AWG**  
 Type: Class 1 Uninsulated Terminals, Ring Tongue, Insulation: None  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 175° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
MS20659-101	#22-18	0.26-0.96	6	Uninsulated	--	Y501 Die	X511 Die	--	GMT277

**MS21004-1 to -21, Sizes 22 to 10 AWG**  
 Type: Class 1 Uninsulated Terminals, Rectangular Tongue, Insulation: None  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 175° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
MS21004-1	#22-18	0.26-0.96	4	Uninsulated	--	Y501 Die	X511 Die	--	GMT277

**MS25036-101 to -114, -143 to -159, Sizes 26 to 10 AWG**  
 Type: Class 1 Insulated Terminals, Insulation: Nylon, UL 94V-2  
 Terminal Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 105° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options					
	AWG	Wire Size mm	Stud Size	Insulation Diameter in. (mm)	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
MS25036-101	#22-18	0.26-0.96	6	.140 (3.56)	Red	Y501 Die	X511 Die	--	AMT4001

**OTHER DMC SOLUTIONS FOR CLASS 1 INSULATED TERMINAL CRIMPING**

Color	Size	Y-Die P/N
Yellow	12-12	Y870
Blue	16-14	Y871
Red	22-18	Y872
Red/Blue	22-14	Y1060

Adjustable Insulation Support Crimp Dies for the HX4 (M22520/5-01) Hand Crimp Tool and the HX4B Battery Powered Crimp Tool. These dies are the preferred choice by many Military and OEM users.

## Tooling Guide for AS81824 Splices 26 to 10 AWG (Class 1)

**M7928/5-1 to -5, Sizes 26 to 10 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Nylon, UL 94V-2  
 Splice Body & Sleeve: Copper, ASTM B-152, Plating: Nickel, QQ-N-290, or Tin, ASTM B-545  
 Max Temp Rating: 105° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M7928/5-1	#26-24	0.12-0.24	Yellow	Y527 Die	X525	--	--

**M7928/6-1 to -5, Sizes 26 to 10 AWG**  
 Type: Class 1 Insulated Splices, Radiation Resistant, Insulation: Polyvinylidene fluoride (PVF2)  
 Splice Body & Sleeve: Copper, ASTM B-152, Plating: Tin, ASTM B-545  
 Max Temp Rating: 150° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M7928/6-1	#26-20	0.15-0.61	Clear w/ Yellow Stripe	Y527 Die	X525	--	--

**M81824/1-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280 or B75-68 or B152, Plating: Nickel, QQ-N-290 or Tin, ASTM B-545  
 Sealing Material: Modified Thermoplastic  
 Max Temp Rating: 105° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/1-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

**M81824/6-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280 or B75-68 or B152, Plating: Tin, ASTM B-545  
 Sealing Material: Modified Thermoplastic

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/6-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

**M81824/7-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280 or B75-68 or B152, Plating: Tin, ASTM B-545  
 Sealing Material: Modified Thermoplastic

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/7-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

**Tools for Production and Overhaul Situations**  
 The MIL-Spec hand tool is suitable for low volume repair or prototype work. For higher volume production and overhaul situations, a non-MIL-Spec power tool might be better suited. DMC offers pneumatic tools, hydraulic tools, battery hydraulic tools, and/or electric-hydraulic tool versions of our MIL-Spec hand tools.

**Wire Stripping for Terminals and Splices**  
 Wire strip length and configuration is important to the success of a termination. Guidelines for particular components being terminated should be followed carefully. For additional information on stripping wire for terminals and splices, contact DMC.

**NOTE: If MIL Approval is required, QPL status should be verified. Consult DMC for current status.**

**Consult DMC about WHMA/IPC-A-620 Crimp Configuration Compliance.**

Additional cross-reference tooling information for MIL-Spec Coax, Triax, Terminals, and Splices can be found in our catalogs and at [www.dmctools.com](http://www.dmctools.com).



**M81824/8-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280 or B75-68 or B152, Plating: Nickel, SAE AMS-QQ-N290  
 Sealing Material: Modified Thermoplastic  
 Max Temp Rating: 175° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/8-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

**M81824/9-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280 or B75-68 or B152, Plating: Tin, ASTM B-545  
 Sealing Material: Modified Thermoplastic  
 Max Temp Rating: 150° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/9-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

**M81824/10-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280 or B75-68 or B152, Plating: Nickel, SAE AMS-QQ-N290  
 Sealing Material: Modified Thermoplastic  
 Max Temp Rating: 175° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/10-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

**M81824/11-01 to -03, Sizes 26 to 12 AWG**  
 Type: Class 1 Insulated Splices, Insulation: Heat Shrinkable Polyvinylidene Fluoride  
 Splice Body & Sleeve: Copper, ASTM B-280, B-75, or B-187, Plating: Nickel, SAE AMS-QQ-N290  
 Sealing Material: Modified Thermoplastic  
 Max Temp Rating: 200° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M81824/11-01	#26-20	0.15-0.61	Red	Y540 Die	X528 Die	GMT232	--

## MIL-Spec End Cap Tooling Guide for 26 to 10 AWG

**M25274-1 to -4, Sizes 26 to 10 AWG**  
 Type: Class 1 Insulated End Cap, Insulation: Nylon or Polyethylene  
 End Cap Body & Sleeve: Copper QQ-C-502, or Bronze ASTM B-140, or Brass MIL-B-12128  
 Plating: Tin, ASTM B-545  
 Max Temp Rating: 105° C

Terminal/Splice Part Number	Terminal Specs			DMC MIL Qualified Tool/Die Options			
	AWG	Wire Size mm	Sleeve Color	HX4 M22520/5	HX3 M22520/10	GMT Series M22520/40-01	
M25274-1	#26-24	0.12-0.24	Yellow	Y501 Die	X511 Die	--	--

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