Poke-Home® contacts and tool applications

Contacts—When you order 48 Series connectors with contacts, the contact package contains enough contacts to complete the insert arrangement and have at least 2 spares left. The package also includes contain paging place for at least includes enough sealing plugs for at least 15% of the contacts in the insert, in any. case a minimum of 3 sealing plugs. To

provide proper sealing, insert unwired contacts and sealing plugs in all unused holes. (Use a #12 contact for a #1 shielded hole.) To order contacts and sealing plugs separately use the part numbers in the table below. Contacts may also be ordered in reels for use with automatic crimping tools.

Tools-Note that various tools are available for crimping, inserting, and removing each size contact. The MS 3191 tools are inactive for new procurement, but can be used if available.

Contact Size	Wire Size AWG	Max. Cur- rent Rating Amps.				Bushing (Posi-	Crimp Jaw Setting	Insertion Tool	Removal Tool			
			AMPHENOL Part No.		MS Part No.				Crimp- ing	Standard	Ultra-Mate [®]	
			Pin	Socket	Pin	Socket	Tool	tioner)	Dia. (Insp.)		Connector	Connector
No. 20	24 22 20	3.0 5.0 7.5	48-1595-09	248-136-2001S-09	M39029/31- 241	M39029/32- 260	294-126 294-186 294-243 294-293 294-358 294-506 294-542	Included 294-1266 Turret Hd. Turret Hd. 294-444 Automatic 294-1889-01	031-041 .031041 .031041 ††	294-88 (MS24256A20) or 294-213	294-89 (MS24256R20)	294-203 (MS24256RH20)
No. 16	18 16	16 22	48-1825-09	248-136-1600S-09	M39029/31- 229	M39029/32- 248	294-126 294-243 294-293 294-358 294-506 294-542	Included Turret Hd. Turret Hd. 294-901 Automatic 294-1889-01	.041053 .041053 ††	294-96 (MS24256A16)	294-97 (MS24256R16)	294-180 (MS24256RH16)
No. 12	14	32 41	48-1827-09	248-136-1200\$-09	M39029731- 235	м39029/32- 254	294-86 294-126 294-243 294-293 294-358 294-506 294-542	294-903 Included Turret Hd. Turret Hd. 294-903 Automatic 294-1889-01	.0625 .062072 .062072 ††	294-72 (MS24256A12)	294-73 (MS24256R12)	294-183 (MS24256RH12)
No. 1 (shielded)*		3 1	48-1226-02 48-1226-54 48-1226-55	48-1227-02 48-1227-54 48-1227-55	MS27184-22P	MS27185-22S 	357-100 294-289	294-1631		294-72† (MS24256A12)	294-73† (MS24256R12)	294-264
No. 2 (shielded)		7.5	48-2187-02	48-2188-02	MS27184-20P	MS27185-20S	294-289 294-358 357-100	294-1630 294-1015	_	294-128†	294-127†	294-184†

•294-542 Crimping tool complies with MIL-C-22520 specification.

•294-542 Crimping tool complies with MIL-C-22520 specification.
††See data plate
Replaces No. 12 power contact.
**Replaces No. 12 power contact.
**Accommodates cables. RG174/U. RG1/9/U. RG-1798/U. RG179A. U. RG187/U. RG188/U and RG161. U as well as shielded wire. Can also accommodate Cable MIL-C-27500-22K1N6.(Extruded) or 22.
**AWG per MIL-C-7078 type II.
***Accommodates Cable MIL-C-27500-22K1N6. 20K1N6. 18K1N6 (Extruded) or 22. 20. 18 AWG. per MIL-C-7078 Type II.
****Commodates Cable MIL-C-27500-22K1N6. 20K1N6. 18K1N6 (Extruded) or 22. 20. 18 AWG. per MIL-C-7078 Type II.
****Tor use with RG195/U. RG180/U and RG1808/U.
***These tools are applicable to all. #1 or #2 shielded contacts, respectively, not just contacts listed here

NOTE: Complete information on crimping shielded contacts is given on pages 14-15.

grommet sealing plugs

Color Code	Size	AMPHENOL Part No.	MS Part Number
Yellow	12 & #1 Shielded	48-2221-12	MS27187-2
Blue	16	48-2221-16	MS27187-1
Red	20	48-2221-20	MS27186-1
White	#2 Shielded	48-1458-01	MS27187-4

reel contacts

Amphenol Part No.

2000 contacts per reel (gold plated)								
#20 Pin	48-1595-92000							
#20 Socket	248-136-2001S-9200							
#16 Pin	48-1825-92000							
#16 Socket	248-136-1600S-9200							
#12 Pin	48-1827-92000							
#12 Socket	248-136-1200S-9200							

Color Coding

PIN CC	PIN CONTACTS PER MIL-C-39029/31												
Contact	Military P/N	Color Code Bands			Amphenol Part Number		Crimp Tool Positioner Color Code	Wire Size	O.D.	Lengths			
Size 20	M39029/31-241	Red	Yellow	Brown	48-1595-09	MS 24254-20P	Red	20-22-24 AWG	(1.02) (2.29) .040/.090	(4.75) (5.94) .187/.234			
16	M39029/31-229	Red	Red	White	48-1825-09	MS 24254-16P	Blue	18-16 AWG	(1.73) (3.30) .068/.130	(5.59) (6.60) .220/.260"			
12	M39029/31-235	Red	Orange	Green	48-1827-09	MS 24254-12P	Yellow	17-12 AWG	(2.69) (4.32) .106/.170"	(5.59) (6.60) .220/.260"			

OCKET CONTACTS PER MIL-C-39029/32

Contact Size	Military P/N	Color Code Bands			Amphenol	Replaces Military P/N	Crimp Tool Positioner Color Code	Wire Size	Insulation O.D.	Stripping Lengths
20	M39029/32-260	Red	Blue	Black	248-136-2001S-09	MS 24255-20S	Red	20-22-24 AWG	(1.02) (2.29) .040/.090"	(4.75) (5.94) .187/.234"
16	M39029/32-248	Red	Yellow	Gray	248-136-1600S-09	MS24255-16S	Blue	18-16 AWG	(1.73) (3.30) .068/.130"	(5.59) (6.60) .220/.260"
12	M39029/32-254	Red	Green	Yellow	248-136-1200S-09	MS25255-12S	Yellow	14-12 AWG	(2.69) (4.32) .106/.170"	(5.59) (6.60 .220/.260"



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