

# Military Cross Reference Chart

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## M83513 / 25 (continued)

M83513 / 25-D02CN	MK-223-025-235-0000-900	M83513 / 25-E01PN	MK-225-031-225-0000-900	M83513 / 25-F01NN	MK-222-037-225-0000-900
M83513 / 25-D02CP	MK-223-025-235-2200-900	M83513 / 25-E01PP	MK-225-031-225-2200-900	M83513 / 25-F01NP	MK-222-037-225-2200-900
M83513 / 25-D02CT	MK-223-025-235-0000-0B7	M83513 / 25-E01PT	MK-225-031-225-0000-0B7	M83513 / 25-F01NT	MK-222-037-225-0000-0B7
M83513 / 25-D02CW	MK-223-025-235-2200-0B7	M83513 / 25-E01PW	MK-225-031-225-2200-0B7	M83513 / 25-F01NW	MK-222-037-225-2200-0B7
M83513 / 25-D02NN	MK-222-025-235-0000-900	M83513 / 25-E02CN	MK-223-031-235-0000-900	M83513 / 25-F01PN	MK-225-037-225-0000-900
M83513 / 25-D02NP	MK-222-025-235-2200-900	M83513 / 25-E02CP	MK-223-031-235-2200-900	M83513 / 25-F01PP	MK-225-037-225-2200-900
M83513 / 25-D02NT	MK-222-025-235-0000-0B7	M83513 / 25-E02CT	MK-223-031-235-0000-0B7	M83513 / 25-F01PT	MK-225-037-225-0000-0B7
M83513 / 25-D02NW	MK-222-025-235-2200-0B7	M83513 / 25-E02CW	MK-223-031-235-2200-0B7	M83513 / 25-F01PW	MK-225-037-225-2200-0B7
M83513 / 25-D02PN	MK-225-025-235-0000-900	M83513 / 25-E02NN	MK-222-031-235-0000-900	M83513 / 25-F02CN	MK-223-037-235-0000-900
M83513 / 25-D02PP	MK-225-025-235-2200-900	M83513 / 25-E02NP	MK-222-031-235-2200-900	M83513 / 25-F02CP	MK-223-037-235-2200-900
M83513 / 25-D02PT	MK-225-025-235-0000-0B7	M83513 / 25-E02NT	MK-222-031-235-0000-0B7	M83513 / 25-F02CT	MK-223-037-235-0000-0B7
M83513 / 25-D02PW	MK-225-025-235-2200-0B7	M83513 / 25-E02NW	MK-222-031-235-2200-0B7	M83513 / 25-F02CW	MK-223-037-235-2200-0B7
M83513 / 25-D03CN	MK-223-025-245-0000-900	M83513 / 25-E02PN	MK-225-031-235-0000-900	M83513 / 25-F02NN	MK-222-037-235-0000-900
M83513 / 25-D03CP	MK-223-025-245-2200-900	M83513 / 25-E02PP	MK-225-031-235-2200-900	M83513 / 25-F02NP	MK-222-037-235-2200-900
M83513 / 25-D03CT	MK-223-025-245-0000-0B7	M83513 / 25-E02PT	MK-225-031-235-0000-0B7	M83513 / 25-F02NT	MK-222-037-235-0000-0B7
M83513 / 25-D03CW	MK-223-025-245-2200-0B7	M83513 / 25-E02PW	MK-225-031-235-2200-0B7	M83513 / 25-F02NW	MK-222-037-235-2200-0B7
M83513 / 25-D03NN	MK-222-025-245-0000-900	M83513 / 25-E03CN	MK-223-031-245-0000-900	M83513 / 25-F02PN	MK-225-037-235-0000-900
M83513 / 25-D03NP	MK-222-025-245-2200-900	M83513 / 25-E03CP	MK-223-031-245-2200-900	M83513 / 25-F02PP	MK-225-037-235-2200-900
M83513 / 25-D03NT	MK-222-025-245-0000-0B7	M83513 / 25-E03CT	MK-223-031-245-0000-0B7	M83513 / 25-F02PT	MK-225-037-235-0000-0B7
M83513 / 25-D03NW	MK-222-025-245-2200-0B7	M83513 / 25-E03CW	MK-223-031-245-2200-0B7	M83513 / 25-F02PW	MK-225-037-235-2200-0B7
M83513 / 25-D03PN	MK-225-025-245-0000-900	M83513 / 25-E03NN	MK-222-031-245-0000-900	M83513 / 25-F03CN	MK-223-037-245-0000-900
M83513 / 25-D03PP	MK-225-025-245-2200-900	M83513 / 25-E03NP	MK-222-031-245-2200-900	M83513 / 25-F03CP	MK-223-037-245-2200-900
M83513 / 25-D03PT	MK-225-025-245-0000-0B7	M83513 / 25-E03NT	MK-222-031-245-0000-0B7	M83513 / 25-F03CT	MK-223-037-245-0000-0B7
M83513 / 25-D03PW	MK-225-025-245-2200-0B7	M83513 / 25-E03NW	MK-222-031-245-2200-0B7	M83513 / 25-F03CW	MK-223-037-245-0000-0B7
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M83513 / 25-E01CN	MK-223-031-225-0000-900	M83513 / 25-E03PN	MK-225-031-245-0000-900	M83513 / 25-F03NN	MK-222-037-245-0000-900
M83513 / 25-E01CP	MK-223-031-225-2200-900	M83513 / 25-E03PP	MK-225-031-245-2200-900	M83513 / 25-F03NP	MK-222-037-245-2200-900
M83513 / 25-E01CT	MK-223-031-225-0000-0B7	M83513 / 25-E03PT	MK-225-031-245-0000-0B7	M83513 / 25-F03NT	MK-222-037-245-0000-0B7
M83513 / 25-E01CW	MK-223-031-225-2200-0B7	M83513 / 25-E03PW	MK-225-031-245-2200-0B7	M83513 / 25-F03NW	MK-222-037-245-2200-0B7
M83513 / 25-E01NN	MK-222-031-225-0000-900	<hr/>		M83513 / 25-F03PN	MK-225-037-245-0000-900
M83513 / 25-E01NP	MK-222-031-225-2200-900	M83513 / 25-F01CN	MK-223-037-225-0000-900	M83513 / 25-F03PP	MK-225-037-245-2200-900
M83513 / 25-E01NT	MK-222-031-225-0000-0B7	M83513 / 25-F01CP	MK-223-037-225-2200-900	M83513 / 25-F03PT	MK-225-037-245-0000-0B7
M83513 / 25-E01NW	MK-222-031-225-2200-0B7	M83513 / 25-F01CT	MK-223-037-225-0000-0B7	M83513 / 25-F03PW	MK-225-037-245-2200-0B7
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M83513 / 25-F01CW	MK-223-037-225-2200-0B7				

## M83513 / 26

M83513 / 26-G01CN	MK-323-051-225-0000-900	M83513 / 26-G02CN	MK-323-051-235-0000-900	M83513 / 26-G03CN	MK-323-051-245-0000-900
M83513 / 26-G01CP	MK-323-051-225-2200-900	M83513 / 26-G02CP	MK-323-051-235-2200-900	M83513 / 26-G03CP	MK-323-051-245-2200-900
M83513 / 26-G01CT	MK-323-051-225-0000-0B7	M83513 / 26-G02CT	MK-323-051-235-0000-0B7	M83513 / 26-G03CT	MK-323-051-245-0000-0B7
M83513 / 26-G01CW	MK-323-051-225-2200-0B7	M83513 / 26-G02CW	MK-323-051-235-2200-0B7	M83513 / 26-G03CW	MK-323-051-245-2200-0B7
M83513 / 26-G01NN	MK-322-051-225-0000-900	M83513 / 26-G02NN	MK-322-051-235-0000-900	M83513 / 26-G03NN	MK-322-051-245-0000-900
M83513 / 26-G01NP	MK-322-051-225-2200-900	M83513 / 26-G02NP	MK-322-051-235-2200-900	M83513 / 26-G03NP	MK-322-051-245-2200-900
M83513 / 26-G01NT	MK-322-051-225-0000-0B7	M83513 / 26-G02NT	MK-322-051-235-0000-0B7	M83513 / 26-G03NT	MK-322-051-245-0000-0B7
M83513 / 26-G01NW	MK-322-051-225-2200-0B7	M83513 / 26-G02NW	MK-322-051-235-2200-0B7	M83513 / 26-G03NW	MK-322-051-245-2200-0B7
M83513 / 26-G01PN	MK-325-051-225-0000-900	M83513 / 26-G02PN	MK-325-051-235-0000-900	M83513 / 26-G03PN	MK-325-051-245-0000-900
M83513 / 26-G01PP	MK-325-051-225-2200-900	M83513 / 26-G02PP	MK-325-051-235-2200-900	M83513 / 26-G03PP	MK-325-051-245-2200-900
M83513 / 26-G01PT	MK-325-051-225-0000-0B7	M83513 / 26-G02PT	MK-325-051-235-0000-0B7	M83513 / 26-G03PT	MK-325-051-245-0000-0B7
M83513 / 26-G01PW	MK-325-051-225-2200-0B7	M83513 / 26-G02PW	MK-325-051-235-2200-0B7	M83513 / 26-G03PW	MK-325-051-245-2200-0B7

## M83513 / 27

M83513 / 27-H01CN	MK-423-100-225-0000-900	M83513 / 27-H01NT	MK-422-100-225-0000-0B7	M83513 / 27-H02CN	MK-423-100-235-0000-900
M83513 / 27-H01CP	MK-423-100-225-6200-900	M83513 / 27-H01NW	MK-422-100-225-6200-0B7	M83513 / 27-H02CP	MK-423-100-235-6200-900
M83513 / 27-H01CT	MK-423-100-225-0000-0B7	M83513 / 27-H01PN	MK-425-100-225-0000-900	M83513 / 27-H02CT	MK-423-100-235-0000-0B7
M83513 / 27-H01CW	MK-423-100-225-6200-0B7	M83513 / 27-H01PP	MK-425-100-225-6200-900	M83513 / 27-H02CW	MK-423-100-235-6200-0B7
M83513 / 27-H01NN	MK-422-100-225-0000-900	M83513 / 27-H01PT	MK-425-100-225-0000-0B7	M83513 / 27-H02NN	MK-422-100-235-0000-900
M83513 / 27-H01NP	MK-422-100-225-6200-900	M83513 / 27-H01PW	MK-425-100-225-6200-0B7	M83513 / 27-H02NP	MK-422-100-235-6200-900

## M83513 / 27 (continued)

M83513 / 27-H02NT	MK-422-100-235-0000-0B7	M83513 / 27-H03CN	MK-423-100-245-0000-900	M83513 / 27-H03NT	MK-422-100-245-0000-0B7
M83513 / 27-H02NW	MK-422-100-235-6200-0B7	M83513 / 27-H03CP	MK-423-100-245-6200-900	M83513 / 27-H03NW	MK-422-100-245-6200-0B7
M83513 / 27-H02PN	MK-425-100-235-0000-900	M83513 / 27-H03CT	MK-423-100-245-0000-0B7	M83513 / 27-H03PN	MK-425-100-245-0000-900
M83513 / 27-H02PP	MK-425-100-235-6200-900	M83513 / 27-H03CW	MK-423-100-245-6200-0B7	M83513 / 27-H03PP	MK-425-100-245-6200-900
M83513 / 27-H02PT	MK-425-100-235-0000-0B7	M83513 / 27-H03NN	MK-422-100-245-0000-900	M83513 / 27-H03PT	MK-425-100-245-0000-0B7
M83513 / 27-H02PW	MK-425-100-235-6200-0B7	M83513 / 27-H03NP	MK-422-100-245-6200-900	M83513 / 27-H03PW	MK-425-100-245-6200-0B7

## M83513 / 28

M83513 / 28-A01CN	MK-233-009-125-0000	M83513 / 28-B01PT	MK-235-015-125-0000-0B7	M83513 / 28-C02PN	MK-235-021-135-0000
M83513 / 28-A01CP	MK-233-009-125-2200	M83513 / 28-B01PW	MK-235-015-125-2200-0B7	M83513 / 28-C02PP	MK-235-021-135-2200
M83513 / 28-A01CT	MK-233-009-125-0000-0B7	M83513 / 28-B02CN	MK-233-015-135-0000	M83513 / 28-C02PT	MK-235-021-135-0000-0B7
M83513 / 28-A01CW	MK-233-009-125-2200-0B7	M83513 / 28-B02CP	MK-233-015-135-2200	M83513 / 28-C02PW	MK-235-021-135-2200-0B7
M83513 / 28-A01NN	MK-232-009-125-0000	M83513 / 28-B02CT	MK-233-015-135-0000-0B7	M83513 / 28-C03CN	MK-233-021-145-0000
M83513 / 28-A01NP	MK-232-009-125-2200	M83513 / 28-B02CW	MK-233-015-135-2200-0B7	M83513 / 28-C03CP	MK-233-021-145-2200
M83513 / 28-A01NT	MK-232-009-125-0000-0B7	M83513 / 28-B02NN	MK-232-015-135-0000	M83513 / 28-C03CT	MK-233-021-145-0000-0B7
M83513 / 28-A01NW	MK-232-009-125-2200-0B7	M83513 / 28-B02NP	MK-232-015-135-2200	M83513 / 28-C03CW	MK-233-021-145-2200-0B7
M83513 / 28-A01PN	MK-235-009-125-0000	M83513 / 28-B02NT	MK-232-015-135-0000-0B7	M83513 / 28-C03NN	MK-232-021-145-0000
M83513 / 28-A01PP	MK-235-009-125-2200	M83513 / 28-B02NW	MK-232-015-135-2200-0B7	M83513 / 28-C03NP	MK-232-021-145-2200
M83513 / 28-A01PT	MK-235-009-125-0000-0B7	M83513 / 28-B02PN	MK-235-015-135-0000	M83513 / 28-C03NT	MK-232-021-145-0000-0B7
M83513 / 28-A01PW	MK-235-009-125-2200-0B7	M83513 / 28-B02PP	MK-235-015-135-2200	M83513 / 28-C03NW	MK-232-021-145-2200-0B7
M83513 / 28-A02CN	MK-233-009-135-0000	M83513 / 28-B02PT	MK-235-015-135-0000-0B7	M83513 / 28-C03PN	MK-235-021-145-0000
M83513 / 28-A02CP	MK-233-009-135-2200	M83513 / 28-B02PW	MK-235-015-135-2200-0B7	M83513 / 28-C03PP	MK-235-021-145-2200
M83513 / 28-A02CT	MK-233-009-135-0000-0B7	M83513 / 28-B03CN	MK-233-015-145-0000	M83513 / 28-C03PT	MK-235-021-145-0000-0B7
M83513 / 28-A02CW	MK-233-009-135-2200-0B7	M83513 / 28-B03CP	MK-233-015-145-2200	M83513 / 28-C03PW	MK-235-021-145-2200-0B7
M83513 / 28-A02NN	MK-232-009-135-0000	M83513 / 28-B03CT	MK-233-015-145-0000-0B7		
M83513 / 28-A02NP	MK-232-009-135-2200	M83513 / 28-B03CW	MK-233-015-145-2200-0B7	M83513 / 28-D01CN	MK-233-025-125-0000
M83513 / 28-A02NT	MK-232-009-135-0000-0B7	M83513 / 28-B03NN	MK-232-015-145-0000	M83513 / 28-D01CP	MK-233-025-125-2200
M83513 / 28-A02NW	MK-232-009-135-2200-0B7	M83513 / 28-B03NP	MK-232-015-145-2200	M83513 / 28-D01CT	MK-233-025-125-0000-0B7
M83513 / 28-A02PN	MK-235-009-135-0000	M83513 / 28-B03NT	MK-232-015-145-0000-0B7	M83513 / 28-D01CW	MK-233-025-125-2200-0B7
M83513 / 28-A02PP	MK-235-009-135-2200	M83513 / 28-B03NW	MK-232-015-145-2200-0B7	M83513 / 28-D01NN	MK-232-025-125-0000
M83513 / 28-A02PT	MK-235-009-135-0000-0B7	M83513 / 28-B03PN	MK-235-015-145-0000	M83513 / 28-D01NP	MK-232-025-125-2200
M83513 / 28-A02PW	MK-235-009-135-2200-0B7	M83513 / 28-B03PP	MK-235-015-145-2200	M83513 / 28-D01NT	MK-232-025-125-0000-0B7
M83513 / 28-A03CN	MK-233-009-145-0000	M83513 / 28-B03PT	MK-235-015-145-0000-0B7	M83513 / 28-D01NW	MK-232-025-125-2200-0B7
M83513 / 28-A03CP	MK-233-009-145-2200	M83513 / 28-B03PW	MK-235-015-145-2200-0B7	M83513 / 28-D01PN	MK-235-025-125-0000
M83513 / 28-A03CT	MK-233-009-145-0000-0B7			M83513 / 28-D01PP	MK-235-025-125-2200
M83513 / 28-A03CW	MK-233-009-145-2200-0B7	M83513 / 28-C01CN	MK-233-021-125-0000	M83513 / 28-D01PT	MK-235-025-125-0000-0B7
M83513 / 28-A03NN	MK-232-009-145-0000	M83513 / 28-C01CP	MK-233-021-125-2200	M83513 / 28-D01PW	MK-235-025-125-2200-0B7
M83513 / 28-A03NP	MK-232-009-145-2200	M83513 / 28-C01CT	MK-233-021-125-0000-0B7	M83513 / 28-D02CN	MK-233-025-135-0000
M83513 / 28-A03NT	MK-232-009-145-0000-0B7	M83513 / 28-C01CW	MK-233-021-125-2200-0B7	M83513 / 28-D02CP	MK-233-025-135-2200
M83513 / 28-A03NW	MK-232-009-145-2200-0B7	M83513 / 28-C01NN	MK-232-021-125-0000	M83513 / 28-D02CT	MK-233-025-135-0000-0B7
M83513 / 28-A03PN	MK-235-009-145-0000	M83513 / 28-C01NP	MK-232-021-125-2200	M83513 / 28-D02CW	MK-233-025-135-2200-0B7
M83513 / 28-A03PP	MK-235-009-145-2200	M83513 / 28-C01NT	MK-232-021-125-0000-0B7	M83513 / 28-D02NN	MK-232-025-135-0000
M83513 / 28-A03PT	MK-235-009-145-0000-0B7	M83513 / 28-C01NW	MK-232-021-125-2200-0B7	M83513 / 28-D02NP	MK-232-025-135-2200
M83513 / 28-A03PW	MK-235-009-145-2200-0B7	M83513 / 28-C01PN	MK-235-021-125-0000	M83513 / 28-D02NT	MK-232-025-135-0000-0B7
		M83513 / 28-C01PP	MK-235-021-125-2200	M83513 / 28-D02NW	MK-232-025-135-2200-0B7
M83513 / 28-B01CN	MK-233-015-125-0000	M83513 / 28-C01PT	MK-235-021-125-0000-0B7	M83513 / 28-D02PN	MK-235-025-135-0000
M83513 / 28-B01CP	MK-233-015-125-2200	M83513 / 28-C01PW	MK-235-021-125-2200-0B7	M83513 / 28-D02PP	MK-235-025-135-2200
M83513 / 28-B01CT	MK-233-015-125-0000-0B7	M83513 / 28-C02CN	MK-233-021-135-0000	M83513 / 28-D02PT	MK-235-025-135-0000-0B7
M83513 / 28-B01CW	MK-233-015-125-2200-0B7	M83513 / 28-C02CP	MK-233-021-135-2200	M83513 / 28-D02PW	MK-235-025-135-2200-0B7
M83513 / 28-B01NN	MK-232-015-125-0000	M83513 / 28-C02CT	MK-233-021-135-0000-0B7	M83513 / 28-D03CN	MK-233-025-145-0000
M83513 / 28-B01NP	MK-232-015-125-2200	M83513 / 28-C02CW	MK-233-021-135-2200-0B7	M83513 / 28-D03CP	MK-233-025-145-2200
M83513 / 28-B01NT	MK-232-015-125-0000-0B7	M83513 / 28-C02NN	MK-232-021-135-0000	M83513 / 28-D03CT	MK-233-025-145-0000-0B7
M83513 / 28-B01NW	MK-232-015-125-2200-0B7	M83513 / 28-C02NP	MK-232-021-135-2200	M83513 / 28-D03CW	MK-233-025-145-2200-0B7
M83513 / 28-B01PN	MK-235-015-125-0000	M83513 / 28-C02NT	MK-232-021-135-0000-0B7	M83513 / 28-D03NN	MK-232-025-145-0000
M83513 / 28-B01PP	MK-235-015-125-2200	M83513 / 28-C02NW	MK-232-021-135-2200-0B7	M83513 / 28-D03NP	MK-232-025-145-2200

## M83513 / 20 (continued)

M83513 / 20-G03CN	MK-383-051-455-000R-900	M83513 / 20-G03NN	MK-382-051-455-000R-900	M83513 / 20-G03PN	MK-385-051-455-000R-900
M83513 / 20-G03CP	MK-383-051-455-220R-900	M83513 / 20-G03NP	MK-382-051-455-220R-900	M83513 / 20-G03PP	MK-385-051-455-220R-900
M83513 / 20-G03CT	MK-383-051-455-000R-0B7	M83513 / 20-G03NT	MK-382-051-455-000R-0B7	M83513 / 20-G03PT	MK-385-051-455-000R-0B7
M83513 / 20-G03CW	MK-383-051-455-220R-0B7	M83513 / 20-G03NW	MK-382-051-455-220R-0B7	M83513 / 20-G03PW	MK-385-051-455-220R-0B7

## M83513 / 21

M83513 / 21-H01CN	MK-483-100-435-000R-05K	M83513 / 21-H02CN	MK-483-100-445-000R-05K	M83513 / 21-H03CN	MK-483-100-455-000R-05K
M83513 / 21-H01CP	MK-483-100-435-620R-05K	M83513 / 21-H02CP	MK-483-100-445-620R-05K	M83513 / 21-H03CP	MK-483-100-455-620R-05K
M83513 / 21-H01CT	MK-483-100-435-000R-0BJ	M83513 / 21-H02CT	MK-483-100-445-000R-0BJ	M83513 / 21-H03CT	MK-483-100-455-000R-0BJ
M83513 / 21-H01CW	MK-483-100-435-620R-0BJ	M83513 / 21-H02CW	MK-483-100-445-620R-0BJ	M83513 / 21-H03CW	MK-483-100-455-620R-0BJ
M83513 / 21-H01NN	MK-482-100-435-000R-05K	M83513 / 21-H02NN	MK-482-100-445-000R-05K	M83513 / 21-H03NN	MK-482-100-455-000R-05K
M83513 / 21-H01NP	MK-482-100-435-620R-05K	M83513 / 21-H02NP	MK-482-100-445-620R-05K	M83513 / 21-H03NP	MK-482-100-455-620R-05K
M83513 / 21-H01NT	MK-482-100-435-000R-0BJ	M83513 / 21-H02NT	MK-482-100-445-000R-0BJ	M83513 / 21-H03NT	MK-482-100-455-000R-0BJ
M83513 / 21-H01NW	MK-482-100-435-620R-0BJ	M83513 / 21-H02NW	MK-482-100-445-620R-0BJ	M83513 / 21-H03NW	MK-482-100-455-620R-0BJ
M83513 / 21-H01PN	MK-485-100-435-000R-05K	M83513 / 21-H02PN	MK-485-100-445-000R-05K	M83513 / 21-H03PN	MK-485-100-455-000R-05K
M83513 / 21-H01PP	MK-485-100-435-620R-05K	M83513 / 21-H02PP	MK-485-100-445-620R-05K	M83513 / 21-H03PP	MK-485-100-455-620R-05K
M83513 / 21-H01PT	MK-485-100-435-000R-0BJ	M83513 / 21-H02PT	MK-485-100-445-000R-0BJ	M83513 / 21-H03PT	MK-485-100-455-000R-0BJ
M83513 / 21-H01PW	MK-485-100-435-620R-0BJ	M83513 / 21-H02PW	MK-485-100-445-620R-0BJ	M83513 / 21-H03PW	MK-485-100-455-620R-0BJ

## M83513 / 22

M83513 / 22-A01CN	MK-213-009-125-0000	M83513 / 22-A03PW	MK-215-009-145-2200-0B7	M83513 / 22-B03PP	MK-215-015-145-2200
M83513 / 22-A01CP	MK-213-009-125-2200			M83513 / 22-B03PT	MK-215-015-145-0000-0B7
M83513 / 22-A01CT	MK-213-009-125-0000-0B7	M83513 / 22-B01CN	MK-213-015-125-0000	M83513 / 22-B03PW	MK-215-015-145-2200-0B7
M83513 / 22-A01CW	MK-213-009-125-2200-0B7	M83513 / 22-B01CP	MK-213-015-125-2200		
M83513 / 22-A01NN	MK-212-009-125-0000	M83513 / 22-B01CT	MK-213-015-125-0000-0B7	M83513 / 22-C01CN	MK-213-021-125-0000
M83513 / 22-A01NP	MK-212-009-125-2200	M83513 / 22-B01CW	MK-213-015-125-2200-0B7	M83513 / 22-C01CP	MK-213-021-125-2200
M83513 / 22-A01NT	MK-212-009-125-0000-0B7	M83513 / 22-B01NN	MK-212-015-125-0000	M83513 / 22-C01CT	MK-213-021-125-0000-0B7
M83513 / 22-A01NW	MK-212-009-125-2200-0B7	M83513 / 22-B01NP	MK-212-015-125-2200	M83513 / 22-C01CW	MK-213-021-125-2200-0B7
M83513 / 22-A01PN	MK-215-009-125-0000	M83513 / 22-B01NT	MK-212-015-125-0000-0B7	M83513 / 22-C01NN	MK-212-021-125-0000
M83513 / 22-A01PP	MK-215-009-125-2200	M83513 / 22-B01NW	MK-212-015-125-2200-0B7	M83513 / 22-C01NP	MK-212-021-125-2200
M83513 / 22-A01PT	MK-215-009-125-0000-0B7	M83513 / 22-B01PN	MK-215-015-125-0000	M83513 / 22-C01NT	MK-212-021-125-0000-0B7
M83513 / 22-A01PW	MK-215-009-125-2200-0B7	M83513 / 22-B01PP	MK-215-015-125-2200	M83513 / 22-C01NW	MK-212-021-125-2200-0B7
M83513 / 22-A02CN	MK-213-009-135-0000	M83513 / 22-B01PT	MK-215-015-125-0000-0B7	M83513 / 22-C01PN	MK-215-021-125-0000
M83513 / 22-A02CP	MK-213-009-135-2200	M83513 / 22-B01PW	MK-215-015-125-2200-0B7	M83513 / 22-C01PP	MK-215-021-125-2200
M83513 / 22-A02CT	MK-213-009-135-0000-0B7	M83513 / 22-B02CN	MK-213-015-135-0000	M83513 / 22-C01PT	MK-215-021-125-0000-0B7
M83513 / 22-A02CW	MK-213-009-135-2200-0B7	M83513 / 22-B02CP	MK-213-015-135-2200	M83513 / 22-C01PW	MK-215-021-125-2200-0B7
M83513 / 22-A02NN	MK-212-009-135-0000	M83513 / 22-B02CT	MK-213-015-135-0000-0B7	M83513 / 22-C02CN	MK-213-021-135-0000
M83513 / 22-A02NP	MK-212-009-135-2200	M83513 / 22-B02CW	MK-213-015-135-2200-0B7	M83513 / 22-C02CP	MK-213-021-135-2200
M83513 / 22-A02NT	MK-212-009-135-0000-0B7	M83513 / 22-B02NN	MK-212-015-135-0000	M83513 / 22-C02CT	MK-213-021-135-0000-0B7
M83513 / 22-A02NW	MK-212-009-135-2200-0B7	M83513 / 22-B02NP	MK-212-015-135-2200	M83513 / 22-C02CW	MK-213-021-135-2200-0B7
M83513 / 22-A02PN	MK-215-009-135-0000	M83513 / 22-B02NT	MK-212-015-135-0000-0B7	M83513 / 22-C02NN	MK-212-021-135-0000
M83513 / 22-A02PP	MK-215-009-135-2200	M83513 / 22-B02NW	MK-212-015-135-2200-0B7	M83513 / 22-C02NP	MK-212-021-135-2200
M83513 / 22-A02PT	MK-215-009-135-0000-0B7	M83513 / 22-B02PN	MK-215-015-135-0000	M83513 / 22-C02NT	MK-212-021-135-0000-0B7
M83513 / 22-A02PW	MK-215-009-135-2200-0B7	M83513 / 22-B02PP	MK-215-015-135-2200	M83513 / 22-C02NW	MK-212-021-135-2200-0B7
M83513 / 22-A03CN	MK-213-009-145-0000	M83513 / 22-B02PT	MK-215-015-135-0000-0B7	M83513 / 22-C02PN	MK-215-021-135-0000
M83513 / 22-A03CP	MK-213-009-145-2200	M83513 / 22-B02PW	MK-215-015-135-2200-0B7	M83513 / 22-C02PP	MK-215-021-135-2200
M83513 / 22-A03CT	MK-213-009-145-0000-0B7	M83513 / 22-B03CN	MK-213-015-145-0000	M83513 / 22-C02PT	MK-215-021-135-0000-0B7
M83513 / 22-A03CW	MK-213-009-145-2200-0B7	M83513 / 22-B03CP	MK-213-015-145-2200	M83513 / 22-C02PW	MK-215-021-135-2200-0B7
M83513 / 22-A03NN	MK-212-009-145-0000	M83513 / 22-B03CT	MK-213-015-145-0000-0B7	M83513 / 22-C03CN	MK-213-021-145-0000
M83513 / 22-A03NP	MK-212-009-145-2200	M83513 / 22-B03CW	MK-213-015-145-2200-0B7	M83513 / 22-C03CP	MK-213-021-145-2200
M83513 / 22-A03NT	MK-212-009-145-0000-0B7	M83513 / 22-B03NN	MK-212-015-145-0000	M83513 / 22-C03CT	MK-213-021-145-0000-0B7
M83513 / 22-A03NW	MK-212-009-145-2200-0B7	M83513 / 22-B03NP	MK-212-015-145-2200	M83513 / 22-C03CW	MK-213-021-145-2200-0B7
M83513 / 22-A03PN	MK-215-009-145-0000	M83513 / 22-B03NT	MK-212-015-145-0000-0B7	M83513 / 22-C03NN	MK-212-021-145-0000
M83513 / 22-A03PP	MK-215-009-145-2200	M83513 / 22-B03NW	MK-212-015-145-2200-0B7	M83513 / 22-C03NP	MK-212-021-145-2200
M83513 / 22-A03PT	MK-215-009-145-0000-0B7	M83513 / 22-B03PN	MK-215-015-145-0000	M83513 / 22-C03NT	MK-212-021-145-0000-0B7

# Military Cross Reference Chart

-- Continued from previous page



## M83513 / 22 (continued)

M83513 / 22-C03NW	MK-212-021-145-2200-0B7	M83513 / 22-D03PP	MK-215-025-145-2200	M83513 / 22-E03PW	MK-215-031-145-2200-0B7
M83513 / 22-C03PN	MK-215-021-145-0000	M83513 / 22-D03PT	MK-215-025-145-0000-0B7		
M83513 / 22-C03PP	MK-215-021-145-2200	M83513 / 22-D03PW	MK-215-025-145-2200-0B7		
M83513 / 22-C03PT	MK-215-021-145-0000-0B7				
M83513 / 22-C03PW	MK-215-021-145-2200-0B7				
<hr/>					
M83513 / 22-D01CN	MK-213-025-125-0000	M83513 / 22-E01CN	MK-213-031-125-0000	M83513 / 22-F01CN	MK-213-037-125-0000
M83513 / 22-D01CP	MK-213-025-125-2200	M83513 / 22-E01CP	MK-213-031-125-2200	M83513 / 22-F01CP	MK-213-037-125-2200
M83513 / 22-D01CT	MK-213-025-125-0000-0B7	M83513 / 22-E01CT	MK-213-031-125-0000-0B7	M83513 / 22-F01CT	MK-213-037-125-0000-0B7
M83513 / 22-D01CW	MK-213-025-125-2200-0B7	M83513 / 22-E01CW	MK-213-031-125-2200-0B7	M83513 / 22-F01CW	MK-213-037-125-2200-0B7
M83513 / 22-D01NN	MK-212-025-125-0000	M83513 / 22-E01NN	MK-212-031-125-0000	M83513 / 22-F01NN	MK-212-037-125-0000
M83513 / 22-D01NP	MK-212-025-125-2200	M83513 / 22-E01NP	MK-212-031-125-2200	M83513 / 22-F01NP	MK-212-037-125-2200
M83513 / 22-D01NT	MK-212-025-125-0000-0B7	M83513 / 22-E01NT	MK-212-031-125-0000-0B7	M83513 / 22-F01NT	MK-212-037-125-0000-0B7
M83513 / 22-D01NW	MK-212-025-125-2200-0B7	M83513 / 22-E01NW	MK-212-031-125-2200-0B7	M83513 / 22-F01NW	MK-212-037-125-2200-0B7
M83513 / 22-D01PN	MK-215-025-125-0000	M83513 / 22-E01PN	MK-215-031-125-0000	M83513 / 22-F01PN	MK-215-037-125-0000
M83513 / 22-D01PP	MK-215-025-125-2200	M83513 / 22-E01PP	MK-215-031-125-2200	M83513 / 22-F01PP	MK-215-037-125-2200
M83513 / 22-D01PT	MK-215-025-125-0000-0B7	M83513 / 22-E01PT	MK-215-031-125-0000-0B7	M83513 / 22-F01PT	MK-215-037-125-0000-0B7
M83513 / 22-D01PW	MK-215-025-125-2200-0B7	M83513 / 22-E01PW	MK-215-031-125-2200-0B7	M83513 / 22-F01PW	MK-215-037-125-2200-0B7
M83513 / 22-D02CN	MK-213-025-135-0000	M83513 / 22-E02CN	MK-213-031-135-0000	M83513 / 22-F02CN	MK-213-037-135-0000
M83513 / 22-D02CP	MK-213-025-135-2200	M83513 / 22-E02CP	MK-213-031-135-2200	M83513 / 22-F02CP	MK-213-037-135-2200
M83513 / 22-D02CT	MK-213-025-135-0000-0B7	M83513 / 22-E02CT	MK-213-031-135-0000-0B7	M83513 / 22-F02CT	MK-213-037-135-0000-0B7
M83513 / 22-D02CW	MK-213-025-135-2200-0B7	M83513 / 22-E02CW	MK-213-031-135-2200-0B7	M83513 / 22-F02CW	MK-213-037-135-2200-0B7
M83513 / 22-D02NN	MK-212-025-135-0000	M83513 / 22-E02NN	MK-212-031-135-0000	M83513 / 22-F02NN	MK-212-037-135-0000
M83513 / 22-D02NP	MK-212-025-135-2200	M83513 / 22-E02NP	MK-212-031-135-2200	M83513 / 22-F02NP	MK-212-037-135-2200
M83513 / 22-D02NT	MK-212-025-135-0000-0B7	M83513 / 22-E02NT	MK-212-031-135-0000-0B7	M83513 / 22-F02NT	MK-212-037-135-0000-0B7
M83513 / 22-D02NW	MK-212-025-135-2200-0B7	M83513 / 22-E02NW	MK-212-031-135-2200-0B7	M83513 / 22-F02NW	MK-212-037-135-2200-0B7
M83513 / 22-D02PN	MK-215-025-135-0000	M83513 / 22-E02PN	MK-215-031-135-0000	M83513 / 22-F02PN	MK-215-037-135-0000
M83513 / 22-D02PP	MK-215-025-135-2200	M83513 / 22-E02PP	MK-215-031-135-2200	M83513 / 22-F02PT	MK-215-037-135-0000-0B7
M83513 / 22-D02PT	MK-215-025-135-0000-0B7	M83513 / 22-E02PT	MK-215-031-135-0000-0B7	M83513 / 22-F02PW	MK-215-037-135-2200-0B7
M83513 / 22-D02PW	MK-215-025-135-2200-0B7	M83513 / 22-E02PW	MK-215-031-135-2200-0B7	M83513 / 22-F03CN	MK-213-037-145-0000
M83513 / 22-D03CN	MK-213-025-145-0000	M83513 / 22-E03CN	MK-213-031-145-0000	M83513 / 22-F03CP	MK-213-037-145-2200
M83513 / 22-D03CP	MK-213-025-145-2200	M83513 / 22-E03CP	MK-213-031-145-2200	M83513 / 22-F03CT	MK-213-037-145-0000-0B7
M83513 / 22-D03CT	MK-213-025-145-0000-0B7	M83513 / 22-E03CW	MK-213-031-145-2200-0B7	M83513 / 22-F03CW	MK-213-037-145-2200-0B7
M83513 / 22-D03CW	MK-213-025-145-2200-0B7	M83513 / 22-E03CT	MK-213-031-145-0000-0B7	M83513 / 22-F03NN	MK-212-037-145-0000
M83513 / 22-D03NN	MK-212-025-145-0000	M83513 / 22-E03CW	MK-213-031-145-2200-0B7	M83513 / 22-F03NP	MK-212-037-145-2200
M83513 / 22-D03NP	MK-212-025-145-2200	M83513 / 22-E03NN	MK-212-031-145-0000	M83513 / 22-F03NT	MK-212-037-145-0000-0B7
M83513 / 22-D03NT	MK-212-025-145-0000-0B7	M83513 / 22-E03NP	MK-212-031-145-2200	M83513 / 22-F03NW	MK-212-037-145-2200-0B7
M83513 / 22-D03NW	MK-212-025-145-2200-0B7	M83513 / 22-E03NT	MK-212-031-145-0000-0B7	M83513 / 22-F03PN	MK-215-037-145-0000
M83513 / 22-D03PN	MK-215-025-145-0000	M83513 / 22-E03NW	MK-212-031-145-2200-0B7	M83513 / 22-F03PP	MK-215-037-145-2200
		M83513 / 22-E03PN	MK-215-031-145-0000	M83513 / 22-F03PT	MK-215-037-145-0000-0B7
		M83513 / 22-E03PP	MK-215-031-145-2200	M83513 / 22-F03PW	MK-215-037-145-2200-0B7
		M83513 / 22-E03PT	MK-215-031-145-0000-0B7		

## M83513 / 23

M83513 / 23-G01CN	MK-313-051-125-0000	M83513 / 23-G02CN	MK-313-051-135-0000	M83513 / 23-G03CN	MK-313-051-145-0000
M83513 / 23-G01CP	MK-313-051-125-2200	M83513 / 23-G02CP	MK-313-051-135-2200	M83513 / 23-G03CP	MK-313-051-145-2200
M83513 / 23-G01CT	MK-313-051-125-0000-0B7	M83513 / 23-G02CT	MK-313-051-135-0000-0B7	M83513 / 23-G03CT	MK-313-051-145-0000-0B7
M83513 / 23-G01CW	MK-313-051-125-2200-0B7	M83513 / 23-G02CW	MK-313-051-135-2200-0B7	M83513 / 23-G03CW	MK-313-051-145-2200-0B7
M83513 / 23-G01NN	MK-312-051-125-0000	M83513 / 23-G02NN	MK-312-051-135-0000	M83513 / 23-G03NN	MK-312-051-145-0000
M83513 / 23-G01NP	MK-312-051-125-2200	M83513 / 23-G02NP	MK-312-051-135-2200	M83513 / 23-G03NP	MK-312-051-145-2200
M83513 / 23-G01NT	MK-312-051-125-0000-0B7	M83513 / 23-G02NT	MK-312-051-135-0000-0B7	M83513 / 23-G03NT	MK-312-051-145-0000-0B7
M83513 / 23-G01NW	MK-312-051-125-2200-0B7	M83513 / 23-G02NW	MK-312-051-135-2200-0B7	M83513 / 23-G03NW	MK-312-051-145-2200-0B7
M83513 / 23-G01PN	MK-315-051-125-0000	M83513 / 23-G02PN	MK-315-051-135-0000	M83513 / 23-G03PN	MK-315-051-145-0000
M83513 / 23-G01PP	MK-315-051-125-2200	M83513 / 23-G02PP	MK-315-051-135-2200	M83513 / 23-G03PP	MK-315-051-145-2200
M83513 / 23-G01PT	MK-315-051-125-0000-0B7	M83513 / 23-G02PT	MK-315-051-135-0000-0B7	M83513 / 23-G03PT	MK-315-051-145-0000-0B7
M83513 / 23-G01PW	MK-315-051-125-2200-0B7	M83513 / 23-G02PW	MK-315-051-135-2200-0B7	M83513 / 23-G03PW	MK-315-051-145-2200-0B7



**PLUG:** MK-312-051-135-2200

**RECEPTACLE:** MM-322-051-253-4400

**PLUG:** ML-311-051-135-2200

**RECEPTACLE:** MN-321-051-253-4400

XX-XXX-XXX-XXX-XXXX-XXX

**PLUG**

**RECEPTACLE**

SERIES	
MK .050" Rugged Metal PC Board Mount Connector	MM .050" Rugged Metal I/O Connector
ML .050" Rugged Plastic PC Board Mount Connector (MK & ML mate with MK, ML, MM, MN receptacles)	MN .050" Rugged Plastic I/O Connector (MM & MN mate with MK, ML, MM, MN plugs)

BODY	
2 2-Row (Sizes 9 thru 37)	2 2-Row (Sizes 9 thru 37)
3 3-Row (Size 51)	3 3-Row (Size 51)
4 4-Row (Size 100)	4 4-Row (Size 100)
<b>BODY STYLE:</b> 1 Plug, straight, narrow footprint, w/ mtg holes	<b>BODY STYLE:</b> 2 Receptacle, straight, with ears

BODY MATERIAL:	
1 Polyphenylene Sulfide (ML only)	1 Polyphenylene Sulfide (MN only)
2 Polyphenylene Sulfide with electroless nickel shell	2 Polyphenylene Sulfide with electroless nickel shell
3 Polyphenylene Sulfide with electrodeposited cadmium shell <input checked="" type="checkbox"/>	3 Polyphenylene Sulfide with electrodeposited cadmium shell <input checked="" type="checkbox"/>
4 Polyphenylene Sulfide with hard anodized black shell	4 Polyphenylene Sulfide with hard anodized black shell
5 Polyphenylene Sulfide with stainless steel shell	5 Polyphenylene Sulfide with stainless steel shell

SIZE	
XXX 009, 015, 021, 025, 031, 037, 051, 100	XXX 009, 015, 021, 025, 031, 037, 051, 100

CONTACTS	
<b>TYPE CONTACTS/TERMINATIONS:</b> 12 Pin, straight, PCB leads, .109" 13 Pin, straight, PCB leads, .140" 14 Pin, straight, PCB leads, .172"	<b>TYPE CONTACTS/TERMINATIONS:</b> 21 Socket, straight, solder cup 24 Socket, straight, .500" pigtails (.018 dia) 25 Socket, straight, 1.000" pigtails (.018 dia) 26 Socket, straight, crimped wire

PLATING OPTIONS:	
3 50 μ" Au contacts; 10 μ" Au terminations	1 50 μ" Au contacts (crimp wire)
5 50 μ" Au contacts; Sn/Pb alloy terminations <input checked="" type="checkbox"/>	3 50 μ" Au contacts; 10 μ" Au terminations (solder cup, pigtail)
7 50 μ" Au contacts; SAC305 terminations	5 50 μ" Au contacts; Sn/Pb alloy terminations (pigtail) <input checked="" type="checkbox"/>
	7 50 μ" Au contacts; SAC305 terminations (pigtail)

HARDWARE	
<b>STYLE OF HARDWARE:</b> 00 None 22 Two fixed jacknut assemblies (62*) 99 Keying hardware, see options below (Body material 2, 3 and 4 only)	<b>STYLE OF HARDWARE:</b> 00 None 22 Two fixed jacknut assemblies (62*) 41 Two turning jackscrews, allen head, retaining ring (81*) 42 Two long turning jackscrews, allen head, retaining ring (82*) 43 Two turning jackscrews, slot head, retaining ring (83*) 44 Two long turning jackscrews, slot head, retaining ring (84*) 45 Two turning jackscrews, allen head, captivated** (85*) 99 Keying hardware, see options below (Body material 2, 3 and 4 only)

POLARIZATION / WIRING:	
00 None	00 None XX For wiring codes, see page MA-3 & MA-4

OPTIONS	
KPXX Two fixed jacknuts. See page MA-6 for keying options (KN*)	KSXX Two turning jackscrews and interfacial sealing gasket. See page MA-6 for keying options (KJ*)
0B7 Threaded inserts	900 Interfacial sealing gasket

\* = Use numbers or letters in parenthesis when ordering size 100.

\*\* = Captive hardware is factory installed and non-removable.

= Option not RoHS compliant



# Cable to Board (Narrow Footprint)

.050"

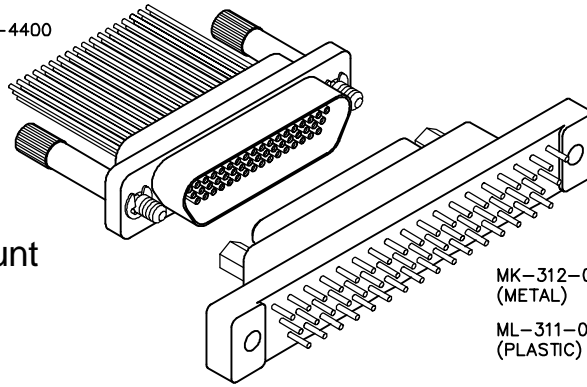
9 thru 100 Contacts

Rugged Cable Rugged Board Mount

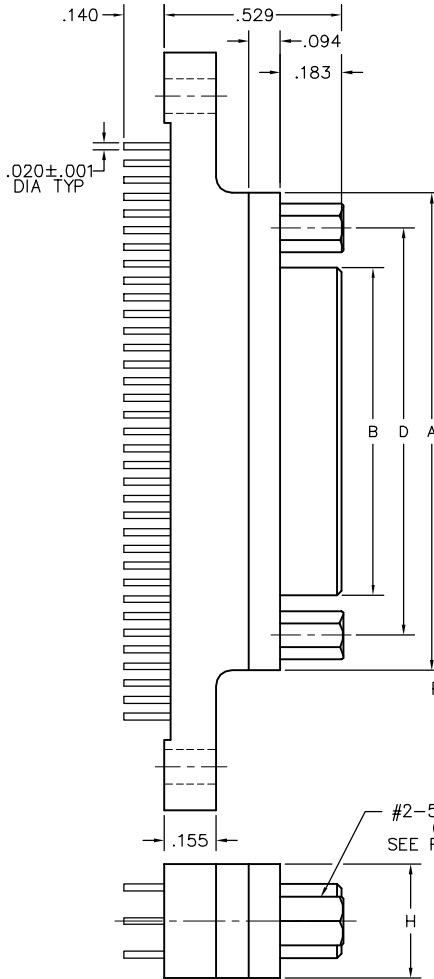
**MM, MN**

**MK, ML**

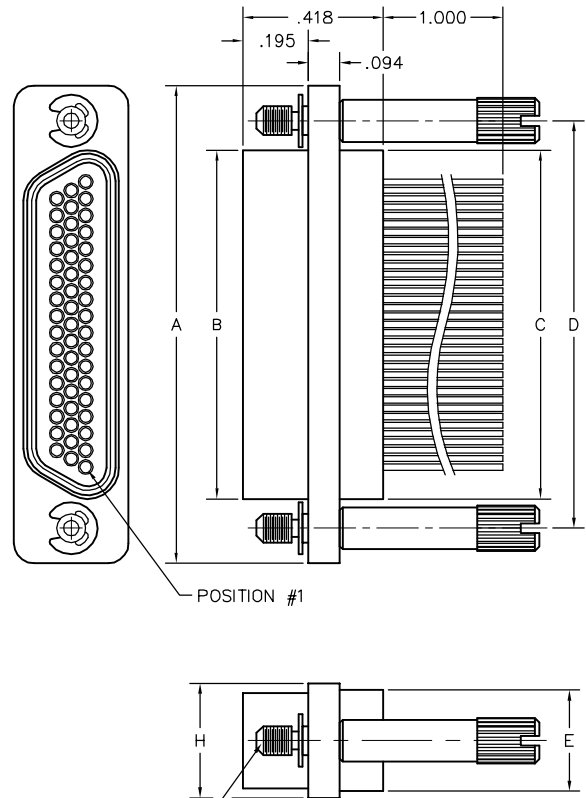
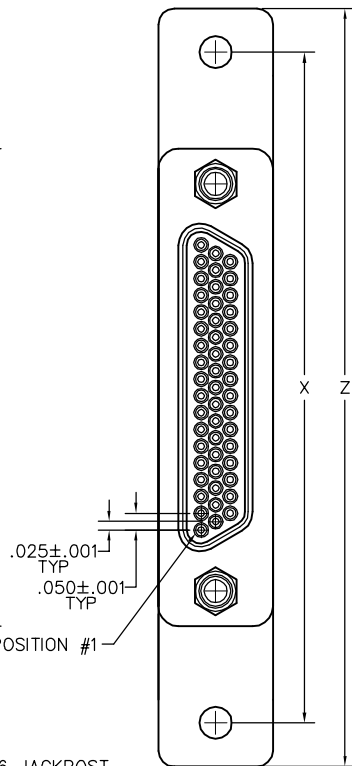
MM-322-051-253-4400  
(METAL)  
MN-321-051-253-4400  
(PLASTIC)



MK-312-051-135-2200  
(METAL)  
ML-311-051-135-2200  
(PLASTIC)



PLUG



#2-56 JACKSCREW  
(2 PLCS)  
SEE PAGE MA-5

RECEPTACLE

SIZE	CONTACT ROWS	DIMENSIONS										HARDWARE	MOUNTING HOLE
		A	B		C	D	E	H	X	Z			
			PLUG MAX	RCPT MAX							POTTING WELL MAX		
9	2	.775	.334	.400	.390	.565	.270	.298	1.150	1.390	#2-56 UNC THD	.096 DIA OR #2-56 UNC THREADED INSERT	
15		.925	.484	.550	.540	.715			1.450	1.690			
21		1.075	.634	.700	.690	.865			1.500	1.740			
25		1.175	.734	.800	.790	.965			1.800	2.040			
31		1.325	.884	.950	.940	1.115			2.100	2.340			
37		1.475	1.034	1.100	1.090	1.265							
51	3	1.425	.984	1.050	1.040	1.215	.310	.341	2.000	2.270	#4-40 UNC THD	.125 DIA OR #2-56 UNC THREADED INSERT	
100	4	2.160	1.384	1.508	1.432	1.800	.360	.384	2.800	3.240			



## Wire Codes

### NEMA HP3-EXBEB (Formerly M16878/4-24 TFE 7 strand)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
MIL-STD-681*	WA	WB	WC	UD	UE	WD	UG	UH	UJ	UK	UL	UM	UN	UP	UQ	UR
WHITE	WE	WF	WG	VD	VE	WH	VG	VH	VJ	VK	VL	VM	VN	VP	VQ	VR
YELLOW	WJ	WK	WL			WM										

### NEMA HP3-EXBDB (Formerly M16878/4-26 TFE 7 strand)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
MIL-STD-681*	WN	WP	WQ	YD	YE	WR	YG	YH	YJ	YK	YL	YM	YN	YP	YQ	YR
WHITE	WS	WT	WU	ZD	ZE	WV	ZG	ZH	ZJ	ZK	ZL	ZM	ZN	ZP	ZQ	ZR
YELLOW	WW	WX	WY			WZ										

### NEMA HP3-EXBCB (Formerly M16878/4-28 TFE 7 strand)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
MIL-STD-681*	XA	XB	XC	1D	1E	XD	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R
WHITE	XE	XF	XG	2D	2E	XH	2G	2H	2J	2K	2L	2M	2N	2P	2Q	2R
YELLOW	XJ	XK	XL			XM										

### TWISTED PAIR per NEMA WC27500-XXRC2U00 (SAE AS22759/11)

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
24 AWG	AA	AB	AC	AD	AE	AF	AG	AH	AJ	AK	AL	AM	AN	AP	AQ	AR
26 AWG	BA	BB	BC	BD	BE	BF	BG	BH	BJ	BK	BL	BM	BN	BP	BQ	BR

### TWISTED PAIR per NEMA WC27500-XXSC2U00 (SAE AS22759/33)\*\*\* ☒

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
24 AWG	JA	JB	JC	JD	JE	JF	JG	JH	JJ	JK	JL	JM	JN	JP	JQ	JR
26 AWG	KA	KB	KC	KD	KE	KF	KG	KH	KJ	KK	KL	KM	KN	KP	KQ	KR

For twisted pair wire connect charts, see page MA-9  
 Twisted pair wire not available on MA, MC or Hybrid connectors

\* = Connectors with more than 100 contacts will repeat color code after 100 colors.

\*\*\* = Per M83513, corrosion has been experienced on connectors that are pre-wired with 22759/33 and stored in sealed environments.  
 Caution should be exercised when using this wire.

☒ = Option not RoHS compliant



## Wire Codes

### SAE AS22759/11-24

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	5A	5B	5C	5D	5E	5F	5G	5H	5J	5K	5L	5M	5N	5P	5Q	5R
MIL-STD-681*	CA	CB	CC	CD	CE	CF	CG	CH	CJ	CK	CL	CM	CN	CP	CQ	CR
WHITE	DA	DB	DC	DD	DE	DF	DG	DH	DJ	DK	DL	DM	DN	DP	DQ	DR

### SAE AS22759/11-26

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	6A	6B	V1	6D	6E	V2	6G	6H	6J	6K	6L	Y6	6N	6P	6Q	6R
MIL-STD-681*	X3	X4	W3	ED	EE	W4	EG	EH	EJ	EK	EL	EM	EN	EP	EQ	ER
WHITE	X1	X2	W1	FD	FE	W2	FG	FH	FJ	FK	FL	Y5	FN	FP	FQ	FR

### SAE AS22759/33-24\*\*\* ☒

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	LA	LB	LC	LD	LE	LF	LG	LH	LJ	LK	LL	LM	LN	LP	LQ	LR
WHITE	MA	MB	MC	MD	ME	MF	MG	MH	MJ	MK	ML	MM	MN	MP	MQ	MR

### SAE AS22759/33-26\*\*\* ☒

	6"	12"	18"	24"	30"	36"	42"	48"	54"	60"	66"	72"	84"	96"	108"	120"
M83513**	NA	NB	Y3	ND	NE	Y4	NG	NH	NJ	NK	NL	Y8	NN	NP	NQ	NR
WHITE	PA	PB	Y1	PD	PE	Y2	PG	PH	PJ	PK	PL	Y7	PN	PP	PQ	PR

\* = Connectors with more than 100 contacts will repeat color code after 100 colors.

\*\* = Wire colors per M83513 are ten solid colors repeating.

\*\*\* = Per M83513, corrosion has been experienced on connectors that are pre-wired with 22759/33 and stored in sealed environments.

Caution should be exercised when using this wire.

☒ = Option not RoHS compliant

**PLUG:** MM-312-051-153-4400

**RECEPTACLE:** MK-322-051-235-2200

**PLUG:** MN-311-051-153-4400

**RECEPTACLE:** ML-321-051-235-2200

XX-XXX-XXX-XXX-XXXX-XXX

**PLUG**

**RECEPTACLE**

SERIES	
MM .050" Rugged Metal I/O Connector	MK .050" Rugged Metal PC Board Mount Connector
MN .050" Rugged Plastic I/O Connector	ML .050" Rugged Plastic PC Board Mount Connector
(MM & MN mate with MK, ML, MM, MN receptacles)	
(MK & ML mate with MK, ML, MM, MN plugs)	

BODY	
2 2-Row (Sizes 9 thru 37)	2 2-Row (Sizes 9 thru 37)
3 3-Row (Size 51)	3 3-Row (Size 51)
4 4-Row (Size 100)	4 4-Row (Size 100)

BODY STYLE:	
1 Plug, straight, with ears	2 Receptacle, straight, narrow footprint, w/ mtg holes

BODY MATERIAL:	
1 Polyphenylene Sulfide (MN only)	1 Polyphenylene Sulfide (ML only)
2 Polyphenylene Sulfide with electroless nickel shell	2 Polyphenylene Sulfide with electroless nickel shell
3 Polyphenylene Sulfide with electrodeposited cadmium shell <input checked="" type="checkbox"/>	3 Polyphenylene Sulfide with electrodeposited cadmium shell <input checked="" type="checkbox"/>
4 Polyphenylene Sulfide with hard anodized black shell	4 Polyphenylene Sulfide with hard anodized black shell
5 Polyphenylene Sulfide with stainless steel shell	5 Polyphenylene Sulfide with stainless steel shell

SIZE	
XXX 009, 015, 021, 025, 031, 037, 051, 100	XXX 009, 015, 021, 025, 031, 037, 051, 100

CONTACTS	
<b>TYPE CONTACTS/TERMINATIONS:</b>	<b>TYPE CONTACTS/TERMINATIONS:</b>
11 Pin, straight, solder cup	22 Socket, straight, PCB leads, .109"
14 Pin, straight, .500" pigtails (.018 dia)	23 Socket, straight, PCB leads, .140"
15 Pin, straight, 1.000" pigtails (.018 dia)	24 Socket, straight, PCB leads, .172"
16 Pin, straight, crimped wire	

PLATING OPTIONS:	
1 50 μ" Au contacts (crimp wire)	3 50 μ" Au contacts: 10 μ" Au terminations
3 50 μ" Au contacts: 10 μ" Au terminations (solder cup, pigtail)	5 50 μ" Au contacts; Sn/Pb alloy terminations <input checked="" type="checkbox"/>
5 50 μ" Au contacts; Sn/Pb alloy terminations (pigtail) <input checked="" type="checkbox"/>	7 50 μ" Au contacts; SAC305 terminations
7 50 μ" Au contacts; SAC305 terminations (pigtail)	

**HARDWARE**

STYLE OF HARDWARE:	
00 None	00 None
22 Two fixed jacknut assemblies (62*)	22 Two fixed jacknut assemblies (62*)
41 Two turning jackscrews, allen head, retaining ring (81*)	99 Keying hardware, see options below (Body material 2, 3 and 4 only)
Two long turning jackscrews, allen head, retaining ring (82*)	
43 Two turning jackscrews, slot head, retaining ring (83*)	
44 Two long turning jackscrews, slot head, retaining ring (84*)	
45 Two turning jackscrews, allen head, captivated** (85*)	
99 Keying hardware, see options below (Body material 2, 3 and 4 only)	

POLARIZATION / WIRING:	
00 None	00 None
XX For wiring codes, see page MA-3 & MA-4	

**OPTIONS**

KSXX Two turning jackscrews. See page MA-6 for keying options (KJ*)	KPXX Two fixed jacknuts and interfacial sealing gasket. See page MA-6 for keying options (KN*)
	900 Interfacial sealing gasket
	0B7 Threaded inserts and interfacial sealing gasket

\* = Use numbers or letters in parenthesis when ordering size 100.

\*\* = Captive hardware is factory installed and non-removable.

= Option not RoHS compliant

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