

INCH-POUND

MIL-DTL-16878/15B
w/AMENDMENT 1
12 January 2016
SUPERSEDING
MIL-DTL-16878/15B
11 August 2000

DETAIL SPECIFICATION SHEET

WIRE, ELECTRICAL, CROSSLINKED, MODIFIED POLYETHYLENE
(XLPE) INSULATED, 125 DEGREE C, 1000 VOLTS

Inactive for new design after 08 December 2014. For new design, use
National Electrical Manufacturers Association (NEMA) HP 5.

This specification is approved for use by all Departments and Agencies of
the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet
and MIL-DTL-16878.

REQUIREMENTS.

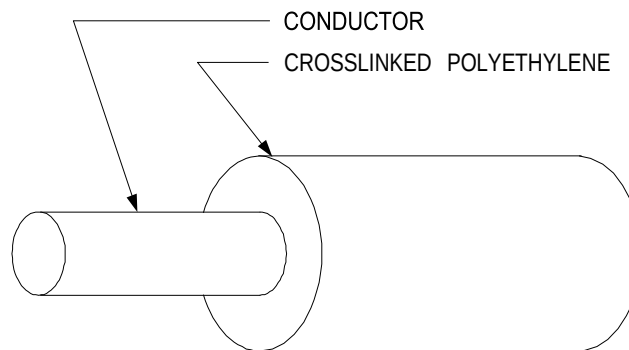


FIGURE 1. Wire configuration.



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TABLE 1. Wire configuration and dimensions.

PIN ^{1/}	Wire Size	Stranding	Conductor		Conductor diameter (nominal) (inch)	Finished wire diameter (inch)	
			Material	Coating		Min	Max
M16878/15BDA*	26	1 X 26	Copper	Tin	.0159	.046	.054
M16878/15BDB*	26	7 X 34	Copper	Tin	.0190	.049	.057
M16878/15BDE*	26	19 X 38	Copper	Tin	.0200	.049	.057
M16878/15BEA*	24	1 X 24	Copper	Tin	.0201	.050	.058
M16878/15BEB*	24	7 X 32	Copper	Tin	.0240	.054	.062
M16878/15BEE*	24	19 X 36	Copper	Tin	.0250	.054	.062
M16878/15BFA*	22	1 X 22	Copper	Tin	.0540	.055	.064
M16878/15BFB*	22	7 X 30	Copper	Tin	.0300	.060	.068
M16878/15BFE*	22	19 X 34	Copper	Tin	.0320	.060	.068
M16878/15BGA*	20	1 X 20	Copper	Tin	.0320	.062	.070
M16878/15BGB*	20	7 X 28	Copper	Tin	.0380	.068	.076
M16878/15BGE*	20	19 X 32	Copper	Tin	.0400	.068	.076
M16878/15BHA*	18	1 X 18	Copper	Tin	.0403	.070	.079
M16878/15HB*	18	7 X 26	Copper	Tin	.0480	.076	.086
M16878/15BHE*	18	19 X 30	Copper	Tin	.0470	.076	.086
M16878/15BJA*	16	1 X 16	Copper	Tin	.0508	.080	.089
M16878/15BJE*	16	19 X 29	Copper	Tin	.0570	.087	.095
M16878/15BJF*	16	26 X 30	Copper	Tin	.0600	.090	.098
M16878/15BKA*	14	1 X 14	Copper	Tin	.0641	.094	.103
M16878/15BKE*	14	19 X 27	Copper	Tin	.0720	.102	.110
M16878/15BKH*	14	41 X 30	Copper	Tin	.0760	.106	.114
M16878/15BLE*	12	19 X 25	Copper	Tin	.0910	.121	.129
M16878/15BLG*	12	37 X 28	Copper	Tin	.0890	.119	.127
M16878/15BLJ*	12	65 X 30	Copper	Tin	.0930	.123	.131

Notes:

^{1/} PIN stands for part or identifying number (see figure 2).

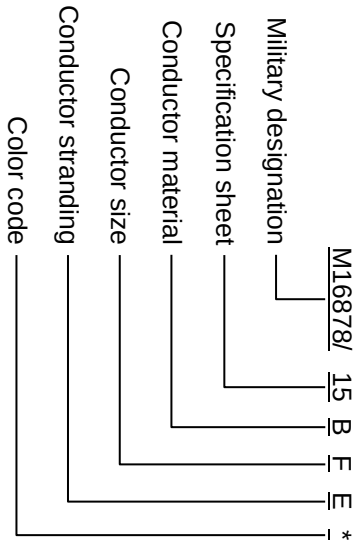


FIGURE 2. Example of PIN (see MIL-DTL-16878).

Wire size	Cold bend mandrel diameter (inches, maximum)
26 through 16	2
14, 12	3

Surface resistance:	Not required
Heat resistance:	Condition at 150 degrees C
Heat aging:	25 percent change (maximum) in 96 hours at 135 degrees C
Insulation tensile strength:	1800 pounds force per square inch (minimum)
Insulation elongation:	100 percent (minimum)
Marking and stripe durability:	Not required

Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

Referenced documents: This document references MIL-DTL-16878.

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CONCLUDING MATERIAL

Custodians:

Navy - SH
Air Force - 85
DLA - CC

Preparing activity:

DLA - CC

(Project 6145-2015-041)

Review activity:

Navy – AS, 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.dla.mil>.