

MIL-C-55021 | NEMA WC 55021

The MIL-C-55021C covers electrical cables consisting of unshielded and unjacketed, shielded, jacketed, or shielded and jacketed twisted pairs and triples, and shielded or shielded and jacketed singles. The cable is intended for internal wiring of electrical equipment for applications of -40°C to +105°C (M55021/1) and -65°C to +200°C (M55021/2). Cable constructed with PVC insulation or jackets are not to be used in aerospace applications.

Cable Designation

Wire Type	Conductor Size	Conductor Material	Color of 1st Wire	Color of 2nd Wire	Color of 3rd Wire	Covering Over Components
E	24	C	901	902	9	STW
(Section 1)	(Section 2)	(Section 3)	(Section 4)	(Section 4)	(Section 4)	(Section 5)

Section 1: Wire Type

Letter	Wire Specification	Letter	Wire Specification
B	M16878/1	EE	NEMA HP3 (M16878/5)
C	M16878/2	BJ	M16878/17
D	M16878/3	CJ	M16878/18
E	NEMA HP3 (M16878/4)	DJ	M16878/19

Section 2: Conductor Size and Stranding

Conductor Size	Stranding
26 AWG - 30 AWG	7 Strands
12 AWG - 24 AWG	19 Strands
10 AWG	37 Strands

Section 3: Conductor Material

Conductor Code	Conductor Type
C	Annealed Copper
S	Copper Clad Steel
H	High Strength Copper Alloy

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Section 4: Color Code

The first color in the series is the base color of the wire. Second and third colors indicate stripes. The color code designators for wires 2 and 3 represent a twisted pair or triplet, respectively, and are separated by a dash. For single shielded and single shielded and jacketed constructions, a dash would not be used

Code	Color	Code	Color
0	Black	5	Green
1	Brown	6	Blue
2	Red	7	Violet
3	Orange	8	Gray
4	Yellow	9	White

Section 5: Covering Over Component Wire(s)

Letter	Covering	Letter	Covering
U	Unjacketed and unshielded	S	Shielded and unjacketed
P	Polyvinylchloride (PVC) Jacket	SP	Shielded and covered with a PVC Jacket
F	Fluorinatedethylenepropylene (FEP) Jacket	SF	Shielded and covered with FEP Jacket
J	Polyamide Jacket	SJ	Shielded and covered with a Polyamide Jacket
T	Polytetrafluoroethylene (PTFE) Jacket	STW	Shielded and covered with a wrapped PTFE Jacket
		STX	Shielded and covered with an extruded PTFE Jacket

Section 6: Identification Method

Tape under the shield or jacket of any of the wires for unjacketed cables. Print indicated Military Specification number, manufacturer's CAGE number, type of designation and year of manufacture.