

Table of NEMA Magnet Wire Specifications

NEMA MW No.	Description	Date of Origin (Rowspan)	1973	1977	1981	1987	1993	1997	2003	2008	2012	2014	2015	2016	2018	2020	2023	2025
MW 1-C	Enamel Coated Round Copper Magnet Wire	1949	X	X	X	X												
MW 2-C	Polyurethane Film Insulated Round Copper Magnet Wire for Solderable Applications	1961	X	X	X	X	X	X	X	X								
MW 3-C	Polyurethane with Self-Bonding Overcoat Film Insulated Round Copper Magnet Wire for Solderable Applications	1961	X	X	X	X	X	X	X	X								
MW 4-C	Heavy and Triple Acrylic Resin Coated Round Copper Magnet Wire	1961																
MW 5-C	Polyester Film Insulated Round Copper Magnet Wire	1961	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 6-C	Polyamide Film Insulated Round Copper Magnet Wire	1957	X	X	X	X	X	X	X	X	X							
MW 9-C	Epoxy Film Insulated Round Copper Magnet Wire	1963	X	X	X	X	X	X	X	X								
MW 10-C	Single, Heavy, Triple Class 180 Polyester/Polyurethane Coated Round Copper Magnet Wire	1961																
MW 11-C	Single, Heavy, Triple Class 180 Polyester/Polyurethane Coated Round Copper Magnet Wire	1963	X	X	X	X												
MW 13-C	Heavy Polyester coated Rectangular and Square Copper Magnet Wire	1962																
MW 14-C	Epoxy Film Insulated Rectangular and Square Copper Magnet Wire	1964	X	X	X	X	X	X	X	X								
MW 15-A	Polyvinyl Acetate Film Insulated Round Aluminum Magnet Wire	1959	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 15-C	Polyvinyl Acetate Film Insulated Round Copper Magnet Wire	1959	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 16-A	Polyimide Film Insulated Round Aluminum Magnet Wire																	
MW 16-C	Polyimide Film Insulated Round Copper Magnet Wire	1964	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 17-C	Polyimide Acetate Overcoated with Polyamide Film Insulated Round Copper Magnet Wire	1959	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 18-C	Polyimide Acetate Overcoated with Polyamide Film Insulated Round Copper Magnet Wire	1961	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 19-C	Polyvinyl Acetate with Self-Bonding Overcoat Film Insulated Round Copper Magnet Wire	1959	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 20-C	Polyimide Film Insulated Rectangular and Square Aluminum Magnet Wire																	
MW 20-C	Polyimide Film Insulated Rectangular and Square Copper Magnet Wire																	
MW 21-C	Silk Covered Round Copper Magnet Wire	1953	X	X	X	X												
MW 22-C	Nylon Fiber Covered Round Magnet Wire	1953	X	X	X	X												
MW 24-A	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Aluminum Magnet Wire																	
MW 24-C	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Copper Magnet Wire																	
MW 25-C	Single, Heavy, Triple Class 180 Polyester Coated Round Copper Magnet Wire	1964	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 26-C	Polyester (imide) Film Insulated Round Copper Magnet Wire for Solderable Applications																	
MW 27-C	Polyester (imide) Overcoated with Polyamide Film Insulated Round Copper Magnet Wire for Solderable Applications																	
MW 28-C	Single and Heavy Polyurethane-Nylon Coated Round Aluminum Magnet Wire (130)																	
MW 29-C	Polyurethane Overcoated with Polyamide and Self-Bonding Overcoat Film Insulated Round Copper Magnet Wire for Solderable Applications																	
MW 30-C	Polyester (amide)imide Film Insulated Round Copper Magnet Wire																	
MW 31-C	Paper Covered Bare or Insulated Rectangular and Square Copper Magnet Wire																	
MW 32-C	Double paper Single Cotton Covered Bare Rectangular and Square Copper Magnet Wire	1956	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 33-A	Paper Covered Bare or Insulated Rectangular Copper Magnet Wire	1955	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 33-C	Paper Covered Bare or Insulated Rectangular Copper Magnet Wire																	
MW 35-A	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Aluminum Magnet Wire	1957	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 35-C	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Copper Magnet Wire (200)																	
MW 36-A	Polyester (amide)imide Overcoated with Polyamide Film Insulated Rectangular and Square Aluminum Magnet Wire																	
MW 36-C	Polyester (amide)imide Overcoated with Polyamide Film Insulated Rectangular and Square Copper Magnet Wire (200)																	
MW 38-C	Polyester (amide)imide Overcoated with Polyamide Film Insulated Rectangular and Square Copper Magnet Wire (220)																	
MW 39-C	Soluble Acrylic Nylon Coated Round Copper Magnet Wire																	
MW 41-C	Glass Fiber Coated, Bare or Film Insulated Round Copper Magnet Wire	1963	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 42-C	Glass Fiber Coated, Bare or Film Insulated Rectangular and Square Copper Magnet Wire	1957-1964	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 43-C	Glass Fiber Coated Silicone Treated Bare or Heavy Film Insulated Rectangular and Square Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 44-C	Glass Fiber Coated Silicone Treated Bare or Heavy Film Insulated Round Copper Magnet Wire	1963	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 45-C	Glass Fiber Glass Coated, Bare or Film Insulated Round Copper Magnet Wire	1962	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 47-C	Glass Fiber Glass Coated, Bare or Film Insulated Rectangular and Square Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 48-C	Glass Fiber Glass Coated Silicone Treated, Bare or Film Insulated Rectangular and Square Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 50-C	Glass Fiber Coated High Temperature Organic Varnish Treated, Bare or Film Insulated Round Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 51-C	Glass Fiber Glass Fiber Coated High Temperature Organic Varnish Treated, Bare or Film Insulated Round Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 52-C	Glass Fiber Coated High Temperature Organic Varnish Treated, Bare or Film Insulated Rectangular and Square Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 53-C	Glass Fiber Glass Fiber Coated High Temperature Organic Varnish Treated, Bare or Film Insulated Rect, and Square Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 54-C	Polyester Glass Fiber Coated and Varnish Treated Bare or Heavy Film-Insulated Round Copper Magnet Wire (155)																	
MW 55-C	Polyester Glass Fiber Coated and Varnish Treated Bare or Heavy Film-Insulated Rectangular and Square Copper Magnet Wire (155)																	
MW 60-C	Aromatic Polyimide Paper Covered Rectangular and Square Copper Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 61-C	Aromatic Polyimide Paper Covered Round Aluminum Magnet Wire		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MW 62-C	Aromatic Polyimide Tape Covered Bare Rectangular and Square Copper Magnet Wire																	
MW 63-C	Aromatic Polyimide Tape Covered Bare Round Copper Magnet Wire	1997																
MW 64-A	Aromatic Polyimide Tape Covered																	
MW 64-C	Aromatic Polyimide Tape Covered																	
MW 65-C	Aromatic Polyimide Tape Covered																	
MW 71-C	Polyimide Film Insulated Round Copper Magnet Wire for Hermetic Applications																	
MW 72-C	Polyester (amide)imide Film Insulated Round Copper Magnet Wire for Hermetic Applications																	
MW 73-A	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Aluminum Magnet Wire for Hermetic Applications																	
MW 73-C	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Copper Magnet Wire for Hermetic Applications																	
MW 74-A	Polyester (amide)imide Film Insulated Round Aluminum Magnet Wire																	
MW 74-C	Polyester (amide)imide Film Insulated Round Copper Magnet Wire																	
MW 75-C	Polyurethane Film Insulated Round Copper Magnet Wire for Solderable Applications																	
MW 76-A	Polyester (amide)imide Film Insulated Round Copper Magnet Wire for Solderable Applications																	
MW 76-C	Polyester (amide)imide Overcoated with Polyamide Film Insulated Round Copper Magnet Wire																	
MW 77-C	Polyester (imide) Film Insulated Round Copper Magnet Wire for Solderable Applications																	
MW 78-C	Polyurethane Film Insulated Round Copper Magnet Wire for Solderable Applications (155)																	
MW 79-C	Polyurethane Film Insulated Round Copper Magnet Wire for Solderable Applications (155)																	
MW 80-C	Polyurethane Overcoated with Polyamide Film Insulated Round Aluminum Magnet Wire for Solderable Applications (155)																	
MW 81-C	Polyimide Film Insulated Round Copper Magnet Wire for Solderable Applications (155)																	
MW 82-C	Polyurethane Overcoated with Polyamide Film Insulated Round Copper Magnet Wire for Solderable Applications (180)																	
MW 83-C	Polyurethane Overcoated with Polyamide Film Insulated Round Copper Magnet Wire for Solderable Applications (180)																	
MW 84-C	Polyimide Film Insulated Rectangular and Square Copper Magnet Wire																	
MW 85-C	Polyimide Fully Insulated Rectangular and Square Copper Magnet Wire for Solderable Applications																	
MW 86-A	Polyvinyl Acetel Film Insulated Round Aluminum Magnet Wire, Class 120																	
MW 86-C	Polyvinyl Acetel Film Insulated Round Copper Magnet Wire, Class 120																	
MW 87-C	Polyvinyl Acetel Film Insulated Rectangular and Square Aluminum Magnet Wire, Class 120																	
MW 87-C	Polyvinyl Acetel Film Insulated Rectangular and Square Copper Magnet Wire, Class 120																	
MW 88-C	Polyimide with Self-Bonding Overcoat Film-Insulated Rectangular and Square Copper Magnet Wire (120)																	
MW 102-A	Polyimide (amide)imide Overcoated with Polyamide and Self-Bonding Overcoat Film-Insulated Round Copper Magnet Wire (120)																	
MW 102-C	Polyester (amide)imide Overcoated with Polyamideimide, and Self Bonding Overcoat Film Insulated Round Copper Magnet Wire (120)																	
MW 103-C	Polyester (amide)imide Overcoated with Polyamideimide, and Self Bonding Overcoat Film Insulated Round Copper Magnet Wire (180)																	
MW 122-C	Polyamideimide with Self-Bonding Overcoat Film-Insulated Round Copper Magnet Wire (180)																	
MW 123-C	Polyamidemide with Self-Bonding Overcoat Film-Insulated Round Copper Magnet Wire Thermal Class 180/Bond Performance at 180°C																	
MW 124-C	Polyimide with Self-Bonding Overcoat Film-Insulated Round Copper Magnet Wire Thermal Class 180/Bond Performance at 180°C																	
MW 130-C	Polyurethane with Self-Bonding Overcoat, Film Insulated Round Copper Magnet Wire for Solderable Applications (130)																	
MW 131-C	Polyurethane with Self-Bonding Overcoat, Film Insulated Round Copper Magnet Wire for Solderable Applications (165)																	
MW 132-C	Polyurethane with Self-Bonding Overcoat, Film Insulated Round Copper Magnet Wire for Solderable Applications (180)																	
MW 135-C	Polyurethane with Polyamide and Self-Bonding Overcoat, Film Insulated Round Copper Magnet Wire for Solderable Applications (130)																	
MW 136-C	Polyurethane with Polyamide and Self-Bonding Overcoat, Film Insulated Round Copper Magnet Wire for Solderable Applications (165)																	
MW 137-C	Polyurethane with Polyamide and Self-Bonding Overcoat, Film Insulated Round Copper Magnet Wire for Solderable Applications (180)																	

Denotes period covering 1973-present in which specification has been obsolete

Denotes period prior to the existing of existing specification

X Denotes specification declared obsolete, to be dropped from the next edition (none, effective 2025)