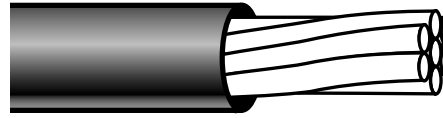


# MIL-W-76 TYPE HW



Thermoplastic  
Insulation

Tinned Copper  
Stranded or Solid

For internal wiring of meters, panels and electronic equipment.

## Electronic Hookup Wire

- Vinyl Primary Insulation
- Nominal .031" Wall (no outer covering)
- -40°C to +80°C
- 2500 Volts. R.M.S. (working)
- Insulation is same as MIL-W-16878/3

Meets UL Style 1011, 1013, 1015 and CSA TR-32 or TEW except where noted.

Military Voltage Rating	3000 volts.
Sine-wave Spark-Test Voltage	8000 VAC.
Impulse Spark Test Voltage	12000 V pulse-peak, or 8500 V @3 kHz
Insulation Breakdown Voltage	> 12,000 volts, peak.
IR: Insulation Resistance, wet	> 2900 megohm/100 meter, metal to water bath at +20°C
Nominal Dielectric Constant value	4.
Flame Properties	Self extinguishing. Meets UL VW-1
Cold Bending for gauges 32 to 22	Bends over 2 inch mandrel while at -54°C.
Cold Bending for gauges 20 to -14	Bends over 3 inch mandrel while at -54°C.
Fungus	Fungus Resistant

GAUGE (AWG)	PART NO.	NUMBER OF STRANDS (AWG)	GAUGE OF STRANDS (AWG)	NOM. DIAM. OF STRANDED CONDUCTOR		NOM. FIN. WIRE DIAM.		MAX. RESISTANCE (dc at 20° C) Ω /per		NOM. WT.	
				IN.	mm	IN.	mm	1000-ft	Km	LBS per 1000-ft	Kg/Km
22	NHW122U	1	22	.0253	.643	.088	2.24	17.20	55	5.0	7.44
22	NHW730U	7	30	.0300	.762	.092	2.34	16.70	55	5.2	7.74
22	NHW1934U	19	34	.0300	.762	.092	2.34	15.90	52	5.3	7.88
20	NHW120U	1	20	.0320	.813	.094	2.39	10.70	35	6.8	10.11
20	NHW728U	7	28	.0380	.985	.100	2.54	10.40	34	7.3	10.86
20	NHW1932U	19	32	.0380	.955	.100	2.54	9.76	32	7.3	10.86
18	NHW118U	1	18	.0403	1.02	.102	2.59	6.78	22	8.3	13.84
18	NHW1630U	16	30	.0470	1.22	.110	2.79	6.51	21	9.7	14.43
18	NHW1930U	19	30	.4800	1.22	.110	2.79	6.22	20	10.0	14.85
16	NWH116U	1	16	.0508	1.29	.113	2.87	4.86	14	12.6	18.75
16	NWH1929U*	19	29	.0540	1.37	.116	2.95	4.82	15	12.0	17.85
16	NHW2630U	26	30	.0550	1.40	.117	2.97	4.59	15	12.5	18.80

Standard basic insulation color numbers are: Black: 0, Brown: 1, Red: 2, Orange: 3, Yellow: 4, Green: 5, Blue: 6, Violet: 7, Gray: 8, White: 9. The insulation color code number, per MIL-STD-681, may be 1, 2 or 3 digits depending on the number or absence of stripes. The 1st number is color of Insulation, 2nd number is color of first stripe; 3rd number is color of the second stripe. Example: White wire(9) + Red stripe(2) + Black stripe(0) makes a color code number of "920". That color number, "920" is appended to the part number. Sample part number might be "xxxxxx-xxx-920"

\* Not C.S.A. Certified