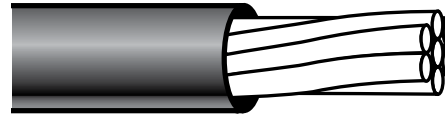


# NEMA HP-3 Type EE



Extruded PTFE  
Insulation

Silver Plated  
Copper Stranded

For internal wiring of meters, panels and electronic equipment. Formerly "Mil-W-16878/5."

## Electronic Hookup Wire

- Extruded Polytetrafluoroethylene (PTFE) Insulation
- Nominal .015" Wall
- -65°C to +200°C
- 1000 Volts. R.M.S. (working)

Meets UL Style 1180 except where noted.

Military Voltage Rating	1000 volts.
Dielectric Voltage Withstand	3000 Volts, Wet
Sine-wave Spark-Test Voltage	5000 VAC.
Impulse Spark Test Voltage	8000 V pulse-peak
Insulation Breakdown Voltage	> 8500 volts, peak.
IR: Insulation Resistance, wet	> 15000 megohm/100 mtr, metal to water bath at +20°C
Nominal Dielectric Constant value	2.04
Flame Properties	Self extinguishing
Cold Bending for gauges 32 to 16	Bends over a 1 inch mandrel while at -54°C
Cold Bending for gauges 14 to 12	Bends over a 2 inch mandrel while at -54°C
Fungus	Fungus resistant

GAUGE (AWG)	PART NO.	NEMA SPEC HP-3 WIRE 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
32	NEE132U†	HP3-EEXBAAx	1	32	.0089	.226	.038	.965	169.000	555	1.2	1.79
32	NEE740U†	HP3-EEXBABx	7	40	.0100	.254	.040	1.02	173.000	568	1.3	1.93
30	NEE130U†	HP3-EEXBBAx	1	30	.0100	.254	.040	1.02	108.000	354	1.4	2.08
30	NEE738U†	HP3-EEXBBBx	7	38	.0120	.305	.042	1.07	100.700	330	1.6	2.38
28	NEE128U	HP3-EEXBCAx	1	28	.0126	.320	.043	1.09	68.000	223	1.8	2.68
28	NEE736U	HP3-EEXBCBx	7	36	.0150	.381	.045	1.14	63.800	209	1.9	2.83
26	NEE126U	HP3-EEXBDAx	1	26	.0159	.404	.046	1.17	42.700	140	2.2	3.27
26	NEE734U	HP3-EEXBDBx	7	34	.0190	.483	.049	1.25	40.500	133	2.2	3.27
26	NEE1938U	HP3-EEXBDEx	19	38	.0200	.508	.049	1.25	38.400	126	2.4	3.57
24	NEE124U	HP3-EEXBEAx	1	24	.0201	.511	.050	1.27	26.800	88	3.3	4.91
24	NEE732U	HP3-EEXBEBx	7	32	.0240	.610	.054	1.37	25.200	83	3.5	5.21
24	NEE1936U	HP3-EEXBEEEx	19	36	.0250	.635	.054	1.37	24.300	80	3.6	5.36
22	NEE122U	HP3-EEXBFAx	1	22	.0254	.645	.056	1.42	17.000	56	4.2	6.25
22	NEE730U	HP3-EEXBFBx	7	30	.0300	.762	.060	1.52	15.900	52	4.6	6.85
22	NEE1934U	HP3-EEXBFEx	19	34	.0320	.813	.060	1.52	15.100	50	4.7	7.00
20	NEE120U	HP3-EEXBGAx	1	20	.0320	.813	.062	1.58	10.500	35	5.8	8.63
20	NEE728U	HP3-EEXBGBx	7	28	.0380	.965	.068	1.73	10.000	33	6.3	9.37
20	NEE1932U	HP3-EEXBGEEx	19	32	.0400	1.02	.068	1.73	9.190	30	6.6	9.82
18	NEE118U	HP3-EEXBHAx	1	18	.0403	1.02	.071	1.80	60.600	22	8.0	11.9
18	NEE726U	HP3-EEXBHBx	7	26	.0480	1.22	.079	2.01	6.280	21	9.1	13.5
18	NEE1930U	HP3-EEXBHEEx	19	30	.0500	1.27	.079	2.01	5.790	19	9.5	14.1
16	NEE1929U†	HP3-EEXBJEx	19	29	.0570	1.45	.089	2.26	4.520	156	12.1	18.0
14	NEE1927U†	HP3-EEXBKEx	19	27	.0720	1.83	.106	2.69	2.880	9	17.9	26.6
12	NEE1925U†	HP3-EEXBLEEx	19	25	.0910	2.31	.125	3.18	1.810	6	26.3	39.1
10	NEE3726U†	HP3-EEXBMGx	37	26	.1110	2.82	.145	3.68	1.190	4	37.8	56.3
8	NEE13329U†	HP3-EEXBNLx	133	29	.1690	4.29	.209	5.31	0.658	2	70.2	104.5
6	NEE13327U†	HP3-EEXBPLx	133	27	.2130	5.41	.263	6.68	0.418	1	122.0	181.5

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, 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 "9-2-0". That color number, "9-2-0" is appended to the part number. Sample part number might be "xxxxxx-xxx-9-2-0"

† Not U.L. Recognized

# NEMA HP-3 Type EE



## RoHS COMPLIANT PRODUCTS:

all RoHS products have the letter "R" written into the second position of the Part No.

GAUGE (AWG)	PART NO.	NEMA SPEC HP-3 WIRE 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.	
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