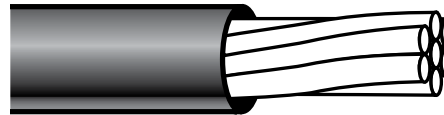


NEMA HP-3 Type E



Extruded PTFE
Insulation

Silver Plated
Copper Stranded

For internal wiring of meters, panels and electronic equipment. Formerly "Mil-W-16878/4"

Electronic Hookup Wire

- Extruded Polytetrafluoroethylene (PTFE) Insulation
- Nominal .010" Wall
- -65°C to +200°C
- 600 Volts. R.M.S. (working)

Meets UL Style 1213 except where noted.

Military Voltage Rating	600 volts.
Dielectric Voltage Withstand	2000 Volts, Wet
Sine-wave Spark-Test Voltage	3400 VAC.
Impulse Spark Test Voltage	6500 V pulse-peak
Insulation Breakdown Voltage	> 6800 volts, peak.
IR: Insulation Resistance, wet	> 10000 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 10	Bends over a 2 inch mandrel while at -54°C
Fungus	Fungus resistant

GAUGE (AWG)	PART NO.	NEMA SPEC HP3 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	NE132U	HP3-EXBAAx	1	32	.0089	.226	.029	.737	169.00	555	.92	1.37
32	NE740U	HP3-EXBABx	7	40	.0100	.254	.030	.762	173.00	568	.96	1.43
30	NE130U	HP3-EXBBAx	1	30	.0100	.254	.030	.762	108.00	354	1.10	1.64
30	NE738U	HP3-EXBBBx	7	38	.0120	.305	.032	.813	100.70	330	1.20	1.79
28	NE128U	HP3-EXBCAx	1	28	.0126	.320	.033	.838	68.00	223	1.40	2.08
28	NE736U	HP3-EXBCBx	7	36	.0150	.381	.035	.889	63.80	209	1.50	2.23
26	NE126U	HP3-EXBDAx	1	26	.0159	.404	.036	.914	42.70	140	1.80	2.68
26	NE734U	HP3-EXBDBx	7	34	.0190	.483	.039	.991	40.50	133	2.00	2.98
26	NE1938U	HP3-EXBDEx	19	38	.0200	.508	.039	.991	38.40	126	2.10	3.13
24	NE124U	HP3-EXBEAx	1	24	.0201	.511	.040	1.02	26.80	88	2.50	3.72
24	NE732U	HP3-EXBEBx	7	32	.0240	.610	.044	1.12	25.20	83	2.70	4.02
24	NE1936U	HP3-EXBEEEx	19	36	.0250	.635	.044	1.12	24.30	80	2.80	4.17
22	NE122U	HP3-EXBFAx	1	22	.0254	.645	.045	1.14	17.00	56	3.40	5.06
22	NE730U	HP3-EXBFBx	7	30	.0300	.762	.050	1.27	15.90	52	3.70	5.51
22	NE1934U	HP3-EXBFEx	19	34	.0320	.813	.050	1.27	15.10	50	3.80	5.65
20	NE120U	HP3-EXBGAx	1	20	.0320	.813	.052	1.32	10.50	35	4.80	7.14
20	NE728U	HP3-EXBGBx	7	28	.0380	.965	.058	1.47	10.00	33	5.30	7.89
20	NE1932U	HP3-EXBGEEx	19	32	.0400	1.02	.058	1.47	9.19	30	5.60	8.33
18	NE118U†	HP3-EXBHAx	1	18	.0403	1.02	.061	1.55	6.60	22	7.00	10.4
18	NE726U†	HP3-EXBHBx	7	26	.0480	1.22	.069	1.75	6.28	21	7.90	11.8
18	NE1930U†	HP3-EXBHEEx	19	30	.0500	1.27	.069	1.75	5.879	19	8.30	12.4
16	NE116U†	HP3-EXBJAx	1	16	.0508	1.29	.074	1.88	4.20	14	10.50	15.6
16	NE1929U†	HP3-EXBJEx	19	29	.0570	1.45	.080	2.03	4.52	15	11.00	16.4
14	NE1927U†	HP3-EXBKEx	19	27	.0720	1.83	.095	2.41	2.88	9	16.00	23.8
12	NE1925U†	HP3-EXBLEEx	19	25	.0910	2.31	.114	2.90	1.81	6	24.10	35.9
12	NE3728U†	HP3-EXBLGx	37	28	.0890	2.26	.112	2.84	1.90	6	25.00	37.2
10	NE3726U†	HP3-EXBMGx	37	26	.1110	2.82	.134	3.40	1.19	4	35.20	52.4

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 E



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 HP3 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
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