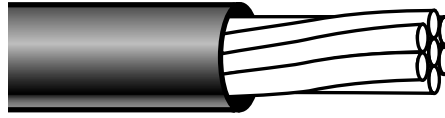


# MIL-DTL-16878/3



Thermoplastic  
Insulation

Tinned Copper  
Stranded

For internal wiring of meters, panels and electronic equipment. Formerly "Type D."

## Electronic Hookup Wire

- Vinyl Primary Insulation
- Nominal .031" WALL  
(No Outer Covering)
- -54°C to +105°C
- 3000 Volts. R.M.S. (working)

Meets UL Styles 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.	MIL-SPEC 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
24	ND124U	M16878/3 BEA	1	24	.0201	.511	.082	2.08	27.2	89	4.2	6.25
24	ND732U	M16878/3 BEB	7	32	.0240	.610	.086	2.18	26.2	86	4.0	5.95
24	ND1936U	M16878/3 BEE	19	36	.0240	.610	.086	2.18	25.4	83	4.1	6.10
22	ND122U	M16878/3 BFA	1	22	.0253	.643	.088	2.24	17.2	56	5.0	7.44
22	ND730U	M16878/3 BFB	7	30	.0300	.762	.092	2.34	16.7	55	5.2	7.74
22	ND1934U	M16878/3 BFE	19	34	.0300	.762	.092	2.34	15.9	52	5.3	7.88
20	ND120U	M16878/3 BGA	1	20	.0320	.813	.094	2.39	10.7	35	6.8	10.11
20	ND728U	M16878/3 BGB	7	28	.0380	.965	.100	2.54	10.4	34	7.3	10.86
20	ND1932U	M16878/3 BGE	19	32	.0380	.965	.100	2.54	9.76	32	7.3	10.86
18	ND118U	M16878/3 BHA	1	18	.0403	1.02	.102	2.59	6.78	22	9.3	13.84
18	ND726U	M16878/3 BHB	7	26	.0480	1.22	.110	2.79	6.54	21	9.7	14.43
18	ND1930U	M16878/3 BHE	19	30	.0480	1.22	.110	2.79	6.22	20	10.0	14.88
16	ND116U	M16878/3 BJA	1	16	.0508	1.29	.113	2.87	4.26	14	12.6	18.75
16	ND1929U*†	M16878/3 BJE	19	19	.0540	1.37	.116	2.95	4.82	16	12.0	17.86
16	ND2630U	M16878/3 BJF	26	30	.0550	1.40	.117	2.97	4.59	15	12.5	18.60
14	ND114U	M16878/3 BKA	1	14	.0641	1.63	.126	3.20	2.68	9	16.9	25.15
14	ND1927U*†	M16878/3 BKE	19	27	.0690	1.75	.131	3.33	3.05	10	17.1	25.44
14	ND4130U	M16878/3 BKH	41	30	.0710	1.80	.134	3.40	2.94	9.6	17.9	26.64
12	ND1925U*†	M16878/3 BLE	19	25	.0890	2.26	.161	4.09	1.92	6.3	27.4	40.77
12	ND3728U*	M16878/3 BLG	37	28	.0890	2.26	.156	3.96	2.01	6.6	28.9	43.00
12	ND6530U	M16878/3 BLJ	65	30	.0890	2.26	.165	4.19	1.85	6.1	28.5	42.41
10	ND3726U*	M16878/3 BMG	37	26	.1070	2.72	.178	4.52	1.26	4.1	38.6	57.44
8	ND13329U*	M16878/3 BNL	133	29	.1670	4.24	.244	6.20	.701	2.3	70.5	104.90
6	ND13327*	M16878/3 BPL	133	27	.2100	5.33	.290	7.37	.444	1.4	104.0	154.75
4	ND13325U*	M16878/3 BRL	133	25	.2660	6.76	.351	8.92	.280	0.9	154.0	229.15
2	ND66530U*	M16878/3 BSP	665	30	.3420	8.69	.425	10.80	.183	0.6	231.0	343.73
1	ND81730U*	M16878/3 BTR	817	30	.3820	9.70	.475	12.07	.149	0.5	284.0	422.59
1/0	ND104530U*	M16878/3 BUS	1045	30	.4310	10.95	.530	13.46	.116	0.4	361.0	537.17

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  
† Not U.L. Recognized