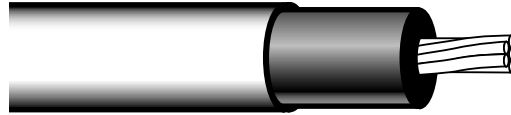


MIL-DTL-16878/19

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



Extruded Nylon Jacket Overall Thermoplastic Insulation Tinned Copper Stranded

Electronic Hookup Wire

- Vinyl Primary Insulation - Nominal .031" Wall
- Nylon Secondary Jacket - Nominal Wall .003"
- -54°C to +105°C
- 3000 Volts. R.M.S. (working)

Meets UL Styles 1012, 1014, 1016 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	ND124N	M16878/19 BEA	1	24	.0201	.511	.089	2.26	27.200	89	4.5	6.97
24	ND732N	M16878/19 BEB	7	32	.0240	.610	.093	2.36	26.200	86	4.6	6.85
24	ND1936N	M16878/19 BEE	19	36	.0240	.610	.093	2.36	25.400	83	4.7	7.00
22	ND122N	M16878/19 BFA	1	22	.0253	.643	.095	2.41	17.200	56	5.3	7.89
22	ND730N	M16878/19 BFB	7	30	.0300	.762	.099	2.52	16.700	55	5.4	8.04
22	ND1934N	M16878/19 BFE	19	34	.0300	.762	.099	2.52	15.900	52	5.5	8.18
20	ND120N	M16878/19 BGA	1	20	.0320	.813	.101	2.57	10.700	35	7.4	11.011
20	ND728N	M16878/19 BGB	7	28	.0380	.965	.107	2.72	10.400	34	7.8	11.61
20	ND1932N	M16878/19 BGE	19	32	.0380	.965	.107	2.72	9.760	32	7.9	11.76
18	ND118N	M16878/19 BHA	1	18	.0403	1.02	.109	2.77	6.780	22	9.7	14.43
18	ND726N	M16878/19 BHB	7	26	.0480	1.22	.117	2.97	6.540	21	10.1	16.03
18	ND1930N	M16878/19 BHE	19	30	.0480	1.22	.117	2.97	6.220	20	10.5	15.62
16	ND116N	M16878/19 BJA	1	16	.0508	1.29	.122	3.10	4.260	14	13.0	19.34
16	ND1929N†	M16878/19 BJE	19	29	.0540	1.37	.125	3.18	4.820	16	12.7	18.90
16	ND2630N	M16878/19 BJF	26	30	.0550	1.40	.126	3.20	4.590	15	13.2	19.64
14	ND114N	M16878/19 BKA	1	14	.0641	1.63	.135	3.43	2.680	9	19.0	28.27
14	ND1927N†	M16878/19 BKE	19	27	.0690	1.75	.140	3.56	3.050	10	18.0	26.78
14	ND4130N	M16878/19 BKH	41	30	.0710	1.70	.143	3.63	2.940	9.6	19.0	28.27
12	ND1925N†	M16878/19 BLE	19	25	.0890	2.26	.170	4.32	1.920	6.3	28.0	41.66
12	ND3728N	M16878/19 BLG	37	28	.0890	2.26	.165	4.19	2.010	6.6	27.5	40.92
12	ND6530N*	M16878/19 BLJ	65	30	.0890	2.26	.174	4.42	1.850	6.1	30.0	44.64
10	ND3726N	M16878/19 BMG	37	26	.1070	2.72	.190	4.83	1.260	4.1	40.5	60.26

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 U.L. Recognized

* Not military due to undersized conductor diameter