

Product Catalog

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Hookup Wire

Braided Stranded Copper Wire

Multiconductor

Tubing

Coaxial Cable

Check the Items You'd Like to Add to Your Quote or Order

Military Specification Hookup Wire

POLYTETRAFLUOROETHYLENE (PTFE) INSULATION

*MIL-W-16878/4 (PREVIOUSLY TYPE 'E')

Standard

Putups:

- 100 ft.

- 1000 ft.

See color chart
8 in Technical
Section. Consult
factory for
availability of
other colors and
color
combinations.

DESCRIPTION

- Conductors: Silver-plated copper with 40 microinches minimum coating thickness per ASTM B-298. Also available on special order are constructions with nickel-plated copper, silver-plated or nickel-plated, high-strength high-conductivity copper alloy.
- Insulation: Extruded PTFE, nominal wall .010 (0.25mm). Bondable treated or sodium-etched coating can be supplied upon request.
- Color Coding: Insulation color coding to MIL-STD-104 is available in solid colors and stripes.

FEATURES & APPLICATIONS

- This wire insulated with PTFE is rated at 600 volts rms, with the corresponding DC potential at 1,500 volts. Suitable for high-frequency use at elevated temperatures in high-reliability programs where electrical and thermal stability are important.

APPROVALS

- Passes VW-1 Vertical Flame Test. OHSA Acceptable. MIL-W-16878/4 (previously Type 'E').

CHARACTERISTICS

- Temperature Range: -55C to +200C with silver-plated conductors. -55C to +260C with nickel-plated conductors.
- Insul. Flaw Test (Spark Test): 4,600 Volts rms @ 3.0 kHz.
- Min. Insul. Resist.: Meets specification requirements.
- Heat Resistance: +290C for 96 hours.
- Voltage Rating: 600 Volts rms.

	Part Number	AWG	Stranding	Nom. Dia. of Conductor in. mm	Nom. O.D. in. mm	Military Number
	13201	32	Solid	.008 0.20	.028 0.71	M16878/4BAA
	13207	32	7/40	.009 0.23	.029 0.74	M16878/4BAB
	13219	32	19/44	.010 0.25	.030 0.76	N/A
	13001	30	Solid	.010 0.25	.030 0.76	M16878/4BBA
	13007	30	7/38	.012 0.30	.032 0.81	M16878/4BBB
	Part Number	AWG	Stranding	Nom. Dia. of Conductor in. mm	Nom. O.D. in. mm	Military Number
	13019	30	19/42	.012 0.30	.030 0.76	N/A
	12801	28	Solid	.013 0.33	.033 0.64	M16878/4BCA
	12807	28	7/36	.015 0.38	.035 0.89	M16878/4BCB*
	12819	28	19/40	.015 0.38	.035 0.89	N/A
	12601	26	Solid	.016 0.41	.036 0.91	M16878/4BDA
	Part Number	AWG	Stranding	Nom. Dia. of Conductor in. mm	Nom. O.D. in. mm	Military Number
	12607	26	7/34	.019 0.48	.039 0.99	M16878/4BDB
	12619	26	19/38	.019 0.48	.039 0.99	M16878/4BDE*
	12401	24	Solid	.020 0.51	.040 1.02	M16878/4BEA
	12407	24	7/32	.024 0.61	.044 1.12	M16878/4BEB
	12419	24	19/36	.024 0.61	.044 1.12	M16878/4BEE*
	Part Number	AWG	Stranding	Nom. Dia. of Conductor in. mm	Nom. O.D. in. mm	Military Number
	12201	22	Solid	.025 0.64	.045 1.14	M16878/4BFA
	12207	22	7/30	.030 0.76	.050 1.27	M16878/4BFB
	12219	22	19/34	.030 0.76	.050 1.27	M16878/4BFE*
	12001	20	Solid	.032 0.81	.052 1.32	M16878/4BGA
	12007	20	7/28	.038 0.97	.058 1.47	M16878/4BGB
	Part Number	AWG	Stranding	Nom. Dia. of Conductor in. mm	Nom. O.D. in. mm	Military Number
	12019	20	19/32	.038 0.97	.058 1.47	M16878/4BGE*
	11801	18	Solid	.040 1.02	.060 1.52	M16878/4BHA
	11807	18	7/26	.048 1.22	.068 1.73	M16878/4BHB
	11819	18	19/30	.047 1.19	.068 1.73	M16878/4BHE*

	11619	16	19/29	.053	1.35	.076	1.98	M16878/4BJE*
	Part Number	AWG	Stranding	Nom. Dia. of Conductor in. mm		Nom. O.D. in. mm	Military Number	
	11419	14	19/27	.067	1.70	.093	2.36	M16878/4BKE*
	11219	12	19/25	.084	2.13	.111	2.62	M16878/4BLE*
	11037	10	37/26	.110	2.79	.138	3.51	M16878/4BMG*

CF-Consult factory. N/A-Not available as M16878. *Also available in latest revision of MIL-W-22759/11. Manufactured to latest available revision without surface marking. Other AWG's and strandings available upon request (see NEMA HP-3).

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