



Standard Sizes Available

Size AWG	Conductor			Cable Diameter			Resistance	Weight
	Strand	Area mm <sup>2</sup>	Diameter mm	Min mm	Nom mm	Max mm	Nom Ω/km	Nom kg/km
32	19/44	0.04	0.24	0.91	1.02	1.12	469	2.11
32	7/40	0.04	0.24	0.91	1.02	1.12	494	2.08
32	1/32	0.03	0.20	0.86	0.97	1.07	549	1.90
30	19/42	0.06	0.30	0.97	1.07	1.17	296	2.44
30	7/38	0.06	0.30	0.97	1.07	1.17	317	2.39
30	1/30	0.05	0.25	0.91	1.02	1.12	340	2.21
28	19/40	0.10	0.37	1.04	1.14	1.24	184	2.97
28	7/36	0.09	0.38	1.04	1.14	1.24	196	2.90
28	1/28	0.08	0.32	0.99	1.09	1.19	215	2.70
26	19/38	0.15	0.48	1.14	1.26	1.37	118	3.81
26	7/34	0.14	0.48	1.14	1.24	1.35	124	3.65
26	1/26	0.13	0.40	1.07	1.17	1.27	138	3.33
24	19/36	0.24	0.64	1.27	1.38	1.50	73	5.15
24	7/32	0.22	0.61	1.27	1.37	1.47	80	4.74
24	1/24	0.20	0.51	1.17	1.27	1.37	85	4.28
22	19/34	0.38	0.75	1.42	1.55	1.68	46	6.75
22	7/30	0.36	0.76	1.42	1.52	1.63	49	6.34
22	1/22	0.33	0.64	1.30	1.41	1.52	54	5.76
20	19/32	0.61	0.96	1.63	1.73	1.83	30	9.19
20	7/28	0.57	0.96	1.63	1.73	1.83	31	8.80
20	1/20	0.52	0.81	1.47	1.57	1.68	34	7.92
18	19/30	0.97	1.19	1.88	2.01	2.13	19	13.36
18	7/26	0.90	1.21	1.88	2.01	2.13	20	12.69
18	1/18	0.82	1.02	1.68	1.80	1.93	21	11.35
16	19/29	1.31	1.35	2.11	2.27	2.44	14	17.34
16	1/16	1.31	1.43	1.96	2.11	2.26	14	16.73
14	19/27	2.08	1.81	2.49	2.69	2.90	9	25.81
12	19/25	3.31	2.27	2.97	3.18	3.38	6	38.49
12	37/28	3.31	2.30	2.92	3.12	3.33	6	37.66
10	37/26	5.26	2.90	3.48	3.68	3.89	4	56.32

The information contained in this document is valid and correct at the time of issue. However, we reserve the right to modify details without notice in the light of subsequent Standard / Specification changes and ongoing technical developments. Diagram colours are used for representation only.

### Nema HP3 Type EE Hook Up Wire 1000 Volts

Replaces MIL-W-16878/5 MIL-W-16878/22  
MIL-W-16878/27 and MIL-W-16878/28  
MIL-W-16878/34 and MIL-W-16878/35

#### PRODUCT DESCRIPTION

Electrical and Electronic PTFE Insulated High Temperature Hook Up wire.

Type EE is rated at 1000 Volts

#### PRODUCT CHARACTERISTICS

##### Conductor:

Solid or stranded annealed copper either silver or nickel plated.

##### Insulation:

Extruded PTFE

##### Temperature Rating:

-65°C to 200°C using silver plated conductors.

-65°C to 260°C using Nickel plated conductors.

##### Colours:

Standard range of solid colours as listed in NEMA HP 3.  
Striping is also available on request.

##### Additional Approvals:

###### UL1180

The cables listed meet the requirements of UL1180 - 200°C 300Vac.

###### UL1815

The cables listed meet the requirements of UL1815 - 250°C 300Vac. (Nickel plated conductors only).

The cables listed meet the requirements of CSA Standard C22.2 No. 210.2 – M90.

These cables meet the requirements of the RoHS directive.