

Wire and Cable

PTFE Wire

NEMA HP3 (MIL-W-16878) and BS 3G 210
Equipment wire



1 Polytetrafluoroethylene (PTFE) is a fluorocarbon
2 polymer insulation material that allows wiring
3 systems to be used and operated in the most
4 demanding of environments.

5 PTFE is resistant to lubricants and fuels, very
6 flexible, plus it has excellent thermal and
7 electrical properties. Particularly suitable for
8 applications requiring high levels of thermal
9 and chemical resistance.

Features & Benefits

- Mechanically tough and flexible
- Excellent temperature performance
- Very high dielectric performance
- Non flammable / Flame resistant
- Excellent chemical resistance
- Silver and Nickel plated conductors
- Water repellent

Operating Temperature BS 3G 210

- -75°C to +190°C (Silver plated copper)
- -75°C to +260°C (Nickel plated copper)

Operating Temperature Nema HP3

- -75°C to +200°C (Silver plated copper)

Voltage Rating

- 250/300, 600 & 1000 volts

BS 3G 210 Equipment Wire

BS 3G 210	Voltage Rating (RMS)	Conductor Plating	
		Silver	Nickel
TYPE A	300 V	A	NA
TYPE B	600 V	B	NB
TYPE C	1000 V	C	NC

Specifications/Approvals

- BS 3G 210 Type A, B and C
- Nema HP3 Type ET, E and EE (formerly known as MIL-W-16878)

For more information on the current PTFE stock profile, technical data, or assistance with your specific PTFE wire and cable requirements, please contact us.

Nema HP3 Equipment Wire

Nema HP3 (MIL-W-16878)	Voltage Rating (RMS)	Nema HP3 Replaces Mil
Type ET	250 V	MIL-W-16878/6
Type E	600 V	MIL-W-16878/4
Type EE	1000 V	MIL-W-16878/5

BS 3G 210 Part Numbering

BS 3G210-A-20(19/0.20)-6 example

BS 3G210 Type			
A	300V Silver	NA	300V Nickel
B	600V Silver	NB	600V Nickel
C	1000V Silver	NC	1000V Nickel

AWG	Strands	A/NA	B/NB	C/NC
32	7/0.080	•	•	•
30	1/0.250	•		
30	7/0.100	•	•	•
28	1/0.320	•		
28	7/0.120	•	•	•
26	1/0.400	•	•	
26	7/0.150	•	•	•
26	19/0.100	•	•	•
24	7/0.200	•	•	•
24	19/0.120	•	•	•
23	1/0.600		•	
22	19/0.150	•	•	•
20	19/0.200	•	•	•
19	1/0.900			•
18	19/0.250		•	•
16	19/0.300			•
14	19/0.335			•
12	19/0.450			•
10	37/0.400			•

Colour Codes					
0	Black	4	Yellow	8	Grey
1	Brown	5	Green	9	White
2	Red	6	Blue	2L	Pink
3	Orange	7	Violet		

Nema HP3 Part Numbering

HP3-EXBGE9 example

NEMA Type	
ET	250 V
E	600 V
EE	1000 V

Construction	
W	Wrapped
X	Extruded

Conductor Material	
B	Silver plated Cu
C	Nickel plated Cu
D	Silver plated high strength Cu alloy
E	Nickel plated high strength Cu alloy
F	Silver plated Cu clad steel
G	Nickel plated Cu clad steel

AWG Size					
A	32	H	18	R	4
B	30	J	16	S	2
C	28	K	14	T	1
D	26	L	12	U	0
E	24	M	10	W	00
F	22	N	8	Y	000
G	20	P	6	Z	0000

Stranding					
A	1	L	133	T	1330
B	7	P	665	V	1672
E	19	R	817	W	2109
G	37	S	1045		

Colour Codes					
0	Black	4	Yellow	8	Grey
1	Brown	5	Green	9	White
2	Red	6	Blue		
3	Orange	7	Violet		