

# NEMA HP-3 TYPES E, EE, ET

*Replaces M16878/4,/5,/6,/23,/25,/27*

## Construction

Stranded or solid silver or nickel plated copper  
Extruded Polytetrafluoroethylene (PTFE)

## Ratings/Approvals

SPC 200° C NPC 260° C

NEMA HP-3 has no requirement for the wire to be printed.

XE 18awg & smaller dual rated to UL1213

XEE 18awg & smaller dual rated to UL1180

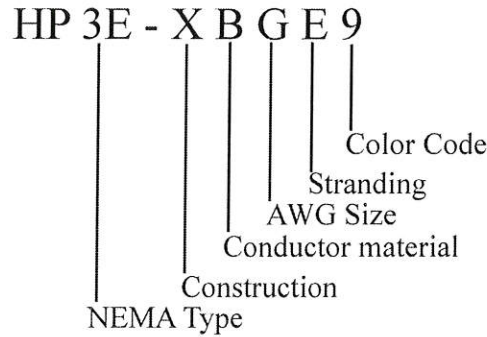
	Type E		Type EE		Type ET		DC Resistance
	M16878/4		M16878/5		M16878/6		
Voltage Rating	600		1000		250		
AWG/Stranding	Mils/OD	lbs/mft	Mils/OD	lbs/mft	Mils/OD	lbs/mft	Ohms/mft
30 1/30	10/.030"	1	15/.040"	1	6/.022"	1	106.0
30 7/38	10/.032"	1	15/.042"	1	6/.024"	1	100.0
28 1/28	10/.033"	2	15/.043"	2	6/.025"	1	66.7
28 7/36	10/.035"	2	15/.045"	2	6/.027"	1	63.6
28 19/40	10/.035"	2	15/.045"	2	6/.027"	1	63.1
26 1/26	10/.036"	2	15/.046"	2	6/.028"	2	41.9
26 7/34	10/.039"	2	15/.049"	2	6/.031"	2	39.7
26 19/38	10/.039"	2	15/.049"	2	6/.031"	2	37.3
24 1/24	10/.040"	3	15/.050"	3	6/.032"	3	26.2
24 7/32	10/.044"	3	15/.054"	3	6/.036"	3	24.5
24 19/36	10/.045"	3	15/.055"	3	6/.036"	3	23.6
22 1/22	10/.045"	4	15/.055"	4	6/.038"	3	16.5
22 7/30	10/.050"	4	15/.060"	4	6/.042"	3	15.6
22 19/34	10/.051"	4	15/.061"	5	6/.042"	4	14.8
20 1/20	10/.052"	5	15/.062"	6	6/.044"	5	10.3
20 7/28	10/.058"	5	15/.068"	6	6/.050"	5	9.8
20 19/32	10/.058"	6	15/.068"	7	6/.050"	5	9.1
18 7/26	10/.069"	8	15/.079"	9	-	-	6.2
18 19/30	10/.069"	8	15/.079"	9	-	-	5.8
16 19/29	13/.080"	10	18/.089"	11	-	-	4.5
14 19/27	13/.095"	15	18/.106"	17	-	-	2.9
12 19/25	15/.114"	23	21/.125"	24	-	-	1.8
10 37/26	13/.134"	35	19/.145"	35	-	-	1.2
8 133/29	-	-	24/.209"	68	-	-	0.7
6 133/27	-	-	28/.263"	107	-	-	-

Additional constructions available - check with the factory for details

All figures referenced are nominal

# NEMA HP3/HP4 REFERENCE GUIDE

replaces M16878



### Construction

X = Extruded  
W = Wrapped (HP3 only)

### AWG Size

B	30
C	28
D	26
E	24
F	22
G	20
H	18
J	16
K	14
L	12
M	10
N	8
P	6
R	4
S	2
T	1
U	1/0
W	2/0
Y	3/0
Z	4/0

### NEMA Type

HP3	Dielectric
E	PTFE
EE	PTFE
ET	PTFE
HP4	Dielectric
K	FEP
KK	FEP
KT	FEP

### Conductor

B	Silver plated copper
C	Nickel plated copper
D	Silver plated high-strength alloy
E	Nickel plated high-strength alloy
F	Silver plated copper clad steel
G	Nickel plated copper clad steel
H	Tin plated copper (HP4 only)

### Stranding

A	1
B	7
E	19
G	37
L	133
P	665
R	817
S	1045
T	1330
V	1665
W	2109

### Color Code

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

\*Constructions listed are those currently manufactured by Harbour Industries



## APPLIANCE WIRING MATERIAL

Subj.758      Section 1      Page 1213

Issued:1960-02-10

Revised:2012-03-14

Style 1213      Single Conductor with Extruded Insulation

**Rating**                      105 deg C, Voltage not specified, Horizontal  
flame, 60 deg C Oil.

**Conductor**                      36 AWG - 12 AWG, solid or stranded round.

**Insulation**                      Extruded PTFE, 8 mils minimum average  
thickness, 7 mils minimum thickness at any  
point.

**Standard**                      Appliance Wiring Material UL 758.

**Marking**                      General.

**Use**                              Internal wiring where not subjected to  
mechanical abuse, Oil Resistant 60 deg C.

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