

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**