



DBA WIRECRAFT® PRODUCTS

# MIL-W-16878 PTFE and NEMA HP 3 Wire

200°C (Silver Plated Conductors) - 260°C (Nickel Plated Conductors)

Insulation: PTFE Extruded or Spiral Wrapped & Fused as Specified by MIL-W-16878

| CONDUCTOR |                   |           |       |                    |         | M16878/4 SPC EXTRUDED<br>M16878/21 SPC WRAPPED<br>M16878/25 NPC EXTRUDED<br>TYPE E 600V RMS |      |                          |                | M16878/5 SPC EXTRUDED<br>M16878/22 SPC WRAPPED<br>M16878/27 NPC EXTRUDED<br>TYPE EE 1000V RMS |      |                          |                | M16878/6 SPC EXTRUDED<br>M16878/20 SPC WRAPPED<br>M16878/23 NPC EXTRUDED<br>TYPE ET 250V RMS |      |                          |                |
|-----------|-------------------|-----------|-------|--------------------|---------|---|------|--------------------------|----------------|---|------|--------------------------|----------------|--|------|--------------------------|----------------|
| AWG.      | NUMBER OF STRANDS | STRAND    |       | COND. DIAM. (NOM.) | CM MIN. | DIAMETER OVER INSULATION  |      | WIRECRAFT CATALOG NUMBER |                | DIAMETER OVER INSULATION  |      | WIRECRAFT CATALOG NUMBER |                | DIAMETER OVER INSULATION   |      | WIRECRAFT CATALOG NUMBER |                |
|           |                   | SIZE AWG. | DIAM. |                    |         | MIN.  | MAX. | EXTRUDED                 | SPIRAL WRAPPED | MIN.  | MAX. | EXTRUDED                 | SPIRAL WRAPPED | MIN.   | MAX. | EXTRUDED                 | SPIRAL WRAPPED |
| 32        | 7                 | 40        | .0031 | .009               | 69      | .025  | .033 | —                        | 327-TE         | .035  | .043 | —                        | 327-TH         | .019   | .023 | —                        | 327-TT         |
| 32        | 1                 | 32        | .0080 | .008               | 63      | .024  | .032 | —                        | 321-TE         | .034  | .042 | —                        | 321-TH         | .018   | .022 | —                        | 321-TT         |
| • 30      | 7                 | 38        | .0040 | .012               | 110     | .028  | .036 | 307-XE                   | 307-TE         | .038  | .046 | 307-XH                   | 307-TH         | .022   | .026 | 307-XT                   | 307-TT         |
| • 30      | 19                | 42        | .0025 | .012               | 92      | .028  | .036 | 3019-XE                  | 3019-TE        | .038  | .046 | 3019-XH                  | 3019-TH        | .022   | .026 | 3019-XT                  | 3019-TT        |
| • 30      | 1                 | 30        | .010  | .010               | 100     | .026  | .034 | 301-XE                   | 301-TE         | .036  | .044 | 301-XH                   | 301-TH         | .020   | .024 | 301-XT                   | 301-TT         |
| • 28      | 7                 | 36        | .0050 | .015               | 175     | .031  | .039 | 287-XE                   | 287-TE         | .041  | .049 | 287-XH                   | 287-TH         | .025   | .029 | 287-XT                   | 287-TT         |
| • 28      | 19                | 40        | .0031 | .015               | 182     | .031  | .039 | 2819-XE                  | 2819-TE        | .041  | .049 | 2819-XH                  | 2819-TH        | .025   | .029 | 2819-XT                  | 2819-TT        |
| • 28      | 1                 | 28        | .0126 | .0126              | 160     | .029  | .037 | 281-XE                   | 281-TE         | .039  | .047 | 281-XH                   | 281-TH         | .023   | .027 | 281-XT                   | 281-TT         |
| • 26      | 7                 | 34        | .0063 | .019               | 278     | .035  | .043 | 267-XE                   | 267-TE         | .045  | .053 | 267-XH                   | 267-TH         | .029   | .033 | 267-XT                   | 267-TT         |
| • 26      | 19                | 38        | .0040 | .019               | 304     | .035  | .043 | 2619-XE                  | 2619-TE        | .045  | .053 | 2619-XH                  | 2619-TH        | .029   | .033 | 2619-XT                  | 2619-TT        |
| • 26      | 1                 | 26        | .016  | .016               | 253     | .032  | .040 | 261-XE                   | 261-TE         | .042  | .050 | 261-XH                   | 261-TH         | .026   | .030 | 261-XT                   | 261-TT         |
| • 24      | 7                 | 32        | .0080 | .024               | 448     | .040  | .048 | 247-XE                   | 247-TE         | .050  | .058 | 247-XH                   | 247-TH         | .034   | .038 | 247-XT                   | 247-TT         |
| • 24      | 19                | 36        | .0050 | .024               | 475     | .040  | .048 | 2419-XE                  | 2419-TE        | .050  | .058 | 2419-XH                  | 2419-TH        | .034   | .038 | 2419-XT                  | 2419-TT        |
| • 24      | 1                 | 24        | .020  | .020               | 404     | .036  | .044 | 241-XE                   | 241-TE         | .046  | .054 | 241-XH                   | 241-TH         | .030   | .034 | 241-XT                   | 241-TT         |
| • 23      | 1                 | 23        | .022  | .022               | 511     | .038  | .046 | 231-XE                   | 231-TE         | .048  | .056 | 231-XH                   | 231-TH         | .032   | .036 | 231-XT                   | 231-TT         |
| • 22      | 7                 | 30        | .0100 | .030               | 700     | .046  | .054 | 227-XE                   | 227-TE         | .056  | .064 | 227-XH                   | 227-TH         | .040   | .044 | 227-XT                   | 227-TT         |
| • 22      | 19                | 34        | .0063 | .030               | 755     | .046  | .054 | 2219-XE                  | 2219-TE        | .056  | .064 | 2219-XH                  | 2219-TH        | .040   | .044 | 2219-XT                  | 2219-TT        |
| • 22      | 27                | 36        | .0050 | .030               | 675     | .046  | .054 | 2227-XE                  | 2227-TE        | .056  | .064 | 2227-XH                  | 2227-TH        | .040   | .044 | 2227-XT                  | 2227-TT        |
| • 22      | 1                 | 22        | .025  | .025               | 640     | .041  | .049 | 221-XE                   | 221-TE         | .051  | .059 | 221-XH                   | 221-TH         | .035   | .039 | 221-XT                   | 221-TT         |
| • 20      | 7                 | 28        | .0126 | .038               | 1113    | .054  | .062 | 207-XE                   | 207-TE         | .064  | .072 | 207-XH                   | 207-TH         | .048   | .052 | 207-XT                   | 207-TT         |
| • 20      | 19                | 32        | .0080 | .038               | 1216    | .054  | .062 | 2019-XE                  | 2019-TE        | .064  | .072 | 2019-XH                  | 2019-TH        | .048   | .052 | 2019-XT                  | 2019-TT        |
| • 20      | 1                 | 20        | .032  | .032               | 1020    | .048  | .056 | 201-XE                   | 201-TE         | .058  | .066 | 201-XH                   | 201-TH         | .042   | .046 | 201-XT                   | 201-TT         |
| • 19      | 1                 | 19        | .036  | .036               | 1288    | .052  | .060 | 191-XE                   | 191-TE         | .062  | .070 | 191-XH                   | 191-TH         | —  | —    | —                        | —              |
| • 18      | 7                 | 26        | .0159 | .047               | 1771    | .064  | .074 | 187-XE                   | 187-TE         | .074  | .084 | 187-XH                   | 187-TH         | —  | —    | —                        | —              |
| • 18      | 19                | 30        | .0100 | .047               | 1900    | .064  | .074 | 1819-XE                  | 1819-TE        | .074  | .084 | 1819-XH                  | 1819-TH        | —  | —    | —                        | —              |
| • 18      | 1                 | 18        | .040  | .040               | 1620    | .056  | .066 | 181-XE                   | 181-TE         | .066  | .076 | 181-XH                   | 181-TH         | —  | —    | —                        | —              |
| • 16      | 19                | 29        | .0113 | .053               | 2432    | .073  | .087 | 1619-XE                  | 1619-TE        | .083  | .095 | 1619-XH                  | 1619-TH        | —  | —    | —                        | —              |
| • 16      | 26                | 30        | .0100 | .057               | 2600    | .073  | .087 | 1626-XE                  | 1626-TE        | .083  | .095 | 1626-XH                  | 1626-TH        | —  | —    | —                        | —              |
| • 16      | 1                 | 16        | .051  | .051               | 2580    | .066  | .080 | 161-XE                   | 161-TE         | .076  | .088 | 161-XH                   | 161-TH         | —  | —    | —                        | —              |
| • 14      | 19                | 27        | .0142 | .067               | 3838    | .087  | .101 | 1419-XE                  | 1419-TE        | .097  | .113 | 1419-XH                  | 1419-TH        | —  | —    | —                        | —              |
| • 12      | 19                | 25        | .0179 | .084               | 6080    | .107  | .121 | 1219-XE                  | 1219-TE        | .117  | .133 | 1219-XH                  | 1219-TH        | —  | —    | —                        | —              |
| • 12      | 37                | 28        | .0126 | .085               | 5883    | .105  | .119 | 1237-XE                  | 1237-TE        | .115  | .131 | 1237-XH                  | 1237-TH        | —  | —    | —                        | —              |
| • 12      | 65                | 30        | .0100 | .089               | 6500    | .109  | .123 | —                        | 1265-TE        | .119  | .135 | —                        | 1265-TH        | —  | —    | —                        | —              |
| • 10      | 37                | 26        | .0159 | .108               | 9361    | .127  | .141 | 1037-XE                  | 1037-TE        | .137  | .153 | 1037-XH                  | 1037-TH        | —  | —    | —                        | —              |
| • 10      | 105               | 30        | .0100 | .127               | 10500   | .147  | .161 | —                        | 10105-TE       | .157  | .172 | —                        | 10105-TH       | —  | —    | —                        | —              |
| • 8       | 133               | 29        | .0113 | .161               | 17024   | —   | —    | —                        | —              | .199  | .219 | —                        | 8133-TH        | —  | —    | —                        | —              |
| • 6       | 133               | 27        | .0142 | .202               | 26866   | —   | —    | —                        | —              | .286  | .301 | —                        | 6133-TH        | —  | —    | —                        | —              |
| • 4       | 133               | 25        | .0179 | .255               | 42560   | —   | —    | —                        | —              | .349  | .369 | —                        | 4133-TH        | —  | —    | —                        | —              |

• Special Stranding made similar to MIL-W-16878  
Cage Code 24868