



MS27291E(USAF)

NOTES:

1. Dimensions are in inches.
2. Unless otherwise specified, tolerances are .005 three place decimals and .02 for two place decimals.
3. All threads are in accordance with FED-STD-H28 (1969) Screw-thread-Standards for Federal Services.
4. Remove all burrs and sharp edges.
5. Material: Cable strap; aluminum alloy in accordance with QQ-A-367 or QQ-A-250 or stainless steel type, 300 or 216 series. Cable strap for use with class R and F connectors. For aluminum alloy, anodize in accordance with MIL-A-8625 or suitable hard anodizing process to meet the performance requirements of MIL-C-26500 and MIL-C-83723. For stainless steel the finish shall be black oxide or equivalent. Cable strap for use with class G connectors; for stainless steel, chromium plating in accordance with QQ-C-320, class 2a, type II, .0002 minimum thickness.
6. Cable support; aluminum alloy in accordance with QQ-A-591 composition 13, A13, A380 or 380. Cable support use with class R and F connectors; for aluminum alloy, in accordance with MIL-A-8625 or suitable hard anodizing process to meet the performance requirements of MIL-C-26500 and MIL-C-83723. Cable support for use with class G connectors; for aluminum alloy, chromium plating in accordance with QQ-C-320, class 2a, type II, .0002 minimum thickness.

FIGURE 1. Dimensions and configuration - Continued.

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| MS PART<br>NUMBER | FOR USE<br>WITH CLASS<br>CONNECTOR | SHELL<br>SIZE | A<br>MAX<br>DIA | B<br>DIA<br>±.005 | "C" NOM<br>UNEQ-2B<br>THREAD | D<br>±.015 | E<br>DIA<br>±.005 | F<br>MAX | G<br>DIA<br>MAX. |
|-------------------|------------------------------------|---------------|-----------------|-------------------|------------------------------|------------|-------------------|----------|------------------|
| MS27291-1         | R, F                               | 10            | .731            | .459              | .5625-24                     | .935       | .270              | .914     | .435             |
| MS27291-101       | G                                  | 10            | .731            | .459              | .5625-24                     | .935       | .270              | .914     | .435             |
| MS27291-2         | R, F                               | 12            | .919            | .636              | .750                         | .935       | .400              | 1.026    | .565             |
| MS27291-201       | G                                  | 12            | .919            | .636              | .750                         | .935       | .400              | 1.026    | .565             |
| MS27291-3         | R, F                               | 14            | .981            | .698              | .8125                        | 1.170      | .460              | 1.090    | .625             |
| MS27291-301       | G                                  | 14            | .981            | .698              | .8125                        | 1.170      | .460              | 1.090    | .625             |
| MS27291-4         | R, F                               | 16            | 1.106           | .823              | .9375                        | 1.170      | .610              | 1.250    | .775             |
| MS27291-401       | G                                  | 16            | 1.106           | .823              | .9375                        | 1.170      | .610              | 1.250    | .775             |
| MS27291-5         | R, F                               | 18            | 1.231           | .941              | 1.0625                       | 1.170      | .690              | 1.356    | .855             |
| MS27291-501       | G                                  | 18            | 1.231           | .941              | 1.0625                       | 1.170      | .690              | 1.356    | .855             |
| MS27291-6         | R, F                               | 22            | 1.481           | 1.191             | 1.3125                       | 1.170      | .940              | 1.604    | 1.105            |
| MS27291-601       | G                                  | 22            | 1.481           | 1.191             | 1.3125                       | 1.170      | .940              | 1.604    | 1.105            |
| MS27291-13        | R, F                               | 8             | .606            | .334              | .4375                        | .935       | .186              | .789     | .351             |
| MS27291-701       | G                                  | 8             | .606            | .334              | .4375                        | .935       | .186              | .789     | .351             |
| MS27291-14        | R, F                               | 20            | 1.356           | 1.066             | 1.1875                       | 1.170      | .816              | 1.481    | .981             |
| MS27291-1401      | G                                  | 20            | 1.356           | 1.066             | 1.1875                       | 1.170      | .816              | 1.481    | .981             |
| MS27291-801       | R, F                               | 24            | 1.606           | 1.316             | 1.4375                       | 1.170      | 1.066             | 1.729    | 1.231            |
| MS27291-15        | G                                  | 24            | 1.606           | 1.316             | 1.4375                       | 1.170      | 1.066             | 1.729    | 1.231            |
| MS27291-901       | G                                  | 24            | 1.606           | 1.316             | 1.4375                       | 1.170      | 1.066             | 1.729    | 1.231            |

  

| MS PART<br>NUMBER | FOR USE<br>WITH CLASS<br>CONNECTOR | SHELL<br>SIZE | A<br>MAX<br>DIA | B<br>DIA<br>±.005 | "C" NOM<br>UNEQ-2B<br>THREAD | D<br>±.015 | E<br>DIA<br>±.015 | F<br>MAX | G<br>DIA<br>MAX. |
|-------------------|------------------------------------|---------------|-----------------|-------------------|------------------------------|------------|-------------------|----------|------------------|
| MS27291-702       | E                                  | 08            | .606            | .334              | .4340                        | .935       | .186              | .769     | .351             |
| MS27291-102       | E                                  | 10            | .731            | .459              | .5634                        | .935       | .270              | .914     | .435             |
| MS27291-202       | E                                  | 12            | .919            | .631              | .7334                        | .935       | .400              | 1.026    | .565             |
| MS27291-302       | E                                  | 14            | .981            | .698              | .8032                        | 1.170      | .460              | 1.090    | .625             |
| MS27291-402       | E                                  | 16            | 1.106           | .823              | .9302                        | 1.170      | .610              | 1.250    | .775             |
| MS27291-502       | E                                  | 18            | 1.231           | .941              | 1.0362                       | 1.170      | .690              | 1.356    | .855             |
| MS27291-802       | E                                  | 20            | 1.356           | 1.066             | 1.1611                       | 1.170      | .816              | 1.481    | .981             |
| MS27291-602       | E                                  | 22            | 1.481           | 1.191             | 1.2862                       | 1.170      | .940              | 1.604    | 1.105            |
| MS27291-902       | E                                  | 24            | 1.606           | 1.316             | 1.4111                       | 1.170      | 1.066             | 1.729    | 1.231            |

FIGURE 1. Dimensions and configuration - Continued.

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REQUIREMENTS:

Dimensions and configuration: See figure 1.

Material: See notes 5 and 6

CONCLUDING MATERIAL

Custodian:

Air Force - 85

Review activities:

Air Force -11, 15, 17, 99

DLA - ES

Preparing activity:

Air Force - 85

Agent:

DLA - ES

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