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REV. C
AS3509™

FEDERAL SUPPLY CLASS
5340

RATIONALE

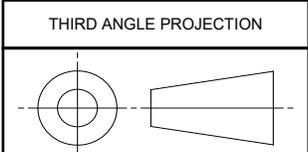
THIS DOCUMENT HAS BEEN DETERMINED TO CONTAIN BASIC AND STABLE TECHNOLOGY WHICH IS NOT DYNAMIC IN NATURE.

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|-----------------|--|---------------------------------|----------------|
| CUSTODIAN: E-25 | | PROCUREMENT SPECIFICATION: NONE | |
| | AEROSPACE STANDARD | | AS3509™ |
| | CABLE, SAFETY, KIT, NICKEL ALLOY, UNS N0660 | | |

ISSUED 1993-01 REVISED 2008-09 REAFFIRMED 2018-08 STABILIZED 2024-02

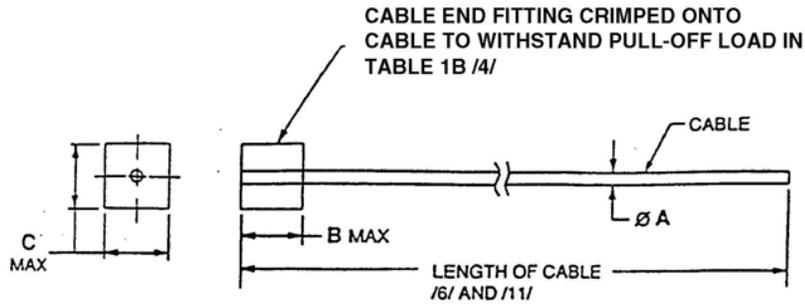


FIGURE 1 - SAFETY CABLE-END FITTING AND CABLE

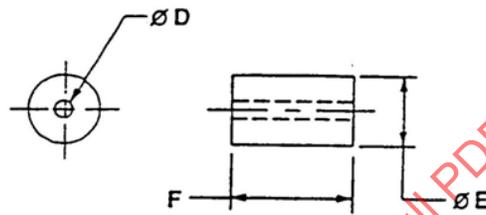


FIGURE 2 - FERRULE

TABLE 1A - DIMENSIONS A-D

| PART NUMBER | Ø A /5/ INCH (mm) | B MAX INCH (mm) | C MAX INCH (mm) | Ø D INCH (mm) |
|--------------|-----------------------|-----------------|-----------------|-----------------------|
| AS3509-01XXX | .022-.026 (0.56-0.66) | .135 (3.43) | .085 (2.16) | .029-.032 (0.74-0.81) |
| AS3509-02XXX | .032-.038 (0.81-0.97) | .135 (3.43) | .125 (3.18) | .043-.049 (1.09-1.24) |
| AS3509-03XXX | .040-.046 (1.02-1.17) | .135 (3.43) | .125 (3.18) | .051-.057 (1.30-1.45) |
| AS3509-04XXX | .062-.072 (1.57-1.83) | .190 (4.83) | .155 (3.94) | .077-.083 (1.96-2.11) |

TABLE 1B - DIMENSIONS E-F

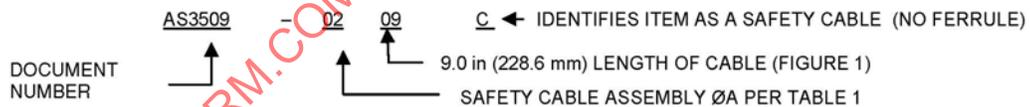
| PART NUMBER | Ø E INCH (mm) | F INCH (mm) | CABLE TYPE | MINIMUM PULL-OFF LOAD POUND (NEWTON) SEE NOTE /10/ |
|--------------|-----------------------|-----------------------|------------|--|
| AS3509-01XXX | .089-.091 (2.26-2.31) | .087-.095 (2.21-2.41) | STRAND 1X7 | 30 (133.4) |
| AS3509-02XXX | .104-.106 (2.64-2.69) | .156-.164 (3.96-4.17) | CABLE 3X7 | 70 (311.4) |
| AS3509-03XXX | .104-.106 (2.64-2.69) | .156-.164 (3.96-4.17) | CABLE 7X7 | 110 (489.3) |
| AS3509-04XXX | .149-.151 (3.78-3.84) | .245-.255 (6.22-6.48) | CABLE 7X19 | 280 (1245.5) |

NOTES:

1. MATERIAL: CABLE, END FITTING, AND FERRULE - AMS5687, NICKEL ALLOY WIRE (UNS N0660 NICKEL ALLOY WIRE) CHEMICAL COMPOSITION ONLY.
2. PROCUREMENT SPECIFICATION: AS4536
3. INSTALLATION IN ACCORDANCE WITH AS4536 AND AS567.
- /4/ CABLE END FITTING SHAPE OPTIONAL, HOWEVER, MUST BE WITHIN SPECIFIED ENVELOPE.
- /5/ CUT END OF CABLE OR STRAND SHALL BE FUSED TO PREVENT UNRAVELING AND CAN BE UP TO .006 in (0.1524mm) ABOVE ACTUAL MEASURED DIAMETER. MAXIMUM FUSED END DIAMETER SHALL BE .028, .042, .050 OR .076 FOR -01XXX, -02XXX, -03XXX, OR -04XXX RESPECTIVELY.
- /6/ LENGTH OF CABLE SHALL BE 3.0 in (76.2 mm) INCREMENTS; MINIMUM LENGTH AT 6.0 in (152.4 mm), MAXIMUM LENGTH AT 24.0 in (609.6 mm), ±.50 (12.7 mm).
7. MARK PART NUMBER AND MANUFACTURER IDENTIFICATION PER AS478 CLASS N.
8. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
9. DIMENSIONS ARE IN INCHES, PARENTHESIS ARE IN MILLIMETERS.
- /10/ PULL-OFF LOAD IN POUND-FORCE, PARENTHESIS IN NEWTONS.
- /11/ EXAMPLE OF A KIT PART NUMBER: FOR .032 in (0.8128 mm) NOMINAL DIAMETER SAFETY CABLE AND FERRULE, 9.0 in (228.6 mm) LONG CABLE AND FERRULE (SEE NOTE 12).



EXAMPLE OF A SAFETY CABLE PART NUMBER: FOR .032 in (0.8128 mm) NOMINAL DIAMETER SAFETY CABLE 9.0 in (228.6 mm) LONG.



EXAMPLE OF A FERRULE PART NUMBER: FOR .032 in (0.8128 mm) NOMINAL DIAMETER SAFETY CABLE.



12. FERRULES SHALL BE PACKAGED IN ACCORDANCE WITH AS4536.
13. DO NOT USE UNASSIGNED PART NUMBERS.