

**AEROSPACE  
MATERIAL  
SPECIFICATION**

Submitted for recognition as an American National Standard

SAE AMS 3814/11

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CORD, CORELESS, PARA-ARAMID  
Intermediate Modulus  
5000 lb (22 240 N), 58 ft per lb (40 m/kg)

1. SCOPE:

- 1.1 Form: This specification covers one strength and weight of braided para-aramid cord.
- 1.2 Application: Primarily for use in cargo type parachutes.
- 1.3 Classification: The minimum breaking strength is 5000 lb (22 240 N) and the minimum weight is 58 ft per lb (40 m/kg).

2. APPLICABLE DOCUMENTS: See AMS 3814.

3. TECHNICAL REQUIREMENTS:

- 3.1 Basic Specification: The complete requirements for procuring the cord described herein shall consist of this document and the latest issue of the basic specification, AMS 3814.

3.2 Properties: Cord shall conform to the following requirements:

- |                                                 |                        |
|-------------------------------------------------|------------------------|
| 3.2.1 Breaking Strength, min                    | 5000 lb (22 240 N)     |
| 3.2.2 Weight, min                               | 58 ft per lb (40 m/kg) |
| 3.2.3 Number of Carriers                        | 24                     |
| 3.2.4 Distance Between Carrier<br>Run-Offs, min | 5 ft (1.5 m)           |
| 3.2.5 Ends per Carrier                          | 1                      |

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|---------|--------------------------------------------------------------------------------------|----------------------------------|
| 3.2.6   | Total Ends                                                                           | 24                               |
| 3.2.7   | Basic Yarn Denier                                                                    | 1500                             |
| 3.2.8   | Number of Singles Yarns for<br>Final Plied Yarn                                      | 5                                |
| 3.2.9   | Yarn Twist                                                                           | 1 turn per in. (25.4 mm)         |
| 3.2.9.1 | Half of the carriers shall be "S" twist; half of the carriers shall be<br>"Z" twist. |                                  |
| 3.2.10  | Picks                                                                                | 5.5 per in. (25.4 mm)            |
| 3.2.11  | Type of Stitch                                                                       | 2 over and 2 under, conventional |
4. QUALITY ASSURANCE PROVISIONS: See AMS 3814.
5. PREPARATION FOR DELIVERY: See AMS 3814.
6. ACKNOWLEDGMENT: See AMS 3814.
7. REJECTIONS: See AMS 3814.
8. NOTES: See AMS 3814.