

MIL-R-12329D(EL)
 16 March 1970
 Superseding
 MIL-R-12329C(EL)
 4 December 1964

MILITARY SPECIFICATION

REELING MACHINE, CABLE, HAND RL-31()

1. SCOPE

1.1 Scope.- This specification covers a lightweight, portable, hand operated reel unit designated as Reeling Machine, Cable, Hand RL-31(). (See 6.4).

2. APPLICABLE DOCUMENTS

2.1 Documents.- The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

SPECIFICATION

FEDERAL

FF-B-571	Bolts, Nuts, Studs, and Tap-rivets (And Material for Same).
FF-W-92	Washers, Metal, Flat (Plain).
UU-P-268	Paper, Kraft, Untreated, Wrapping.
PPP-B-20	Bag, Cotton, Mailing.
PPP-B-636	Box, Fiberboard.
PPP-F-320	Fiberboard, Corrugated and Solid, Sheet Stock (Container Grade) and Cut Shapes.
PPP-P-291	Paperboard, Wrapping Cushioning.
PPP-T-45	Tape, Gummed Paper, Reinforced and Plain, for Sealing and Securing.
PPP-T-76	Tape, Pressure-sensitive Adhesive Paper, Water Resistant, (for Carton Sealing).
PPP-T-97	Tape, Pressure-sensitive Adhesive, Filament Reinforced.

FSC 3895

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MIL-P-116	Preservation, Methods of.
MIL-B-117	Bag, Sleeve and Tubing - Interior Packaging.
MIL-B-121	Barrier Material, Greaseproofed, Waterproofed, Flexible.
MIL-W-6858	Welding, Resistance, Aluminum, Magnesium, Non-hardening Steels or Alloys, Nickel Alloys, Heat-resisting Alloys, and Titanium Alloys, Spot and Seam.
MIL-M-10578	Metal Conditioner and Rust Remover, Phosphoric Acid Base.
MIL-G-10924	Grease, Automotive and Artillery.
MIL-M-13231	Marking of Electronic Items.
MIL-F-14072	Finish for Ground Signal Equipment.

STANDARDS**MILITARY**

MIL-STD-22	Welded-Joint Designs.
MIL-STD-105	Sampling Procedures and Tables for Inspection by Attributes.
MIL-STD-129	Marking for Shipment and Storage.
MIL-STD-169	Extreme-temperature Cycle.
MIL-STD-170	Moisture Resistance Test Cycle for Ground Signal Equipment.
MIL-STD-454	Standard General Requirements for Electronic Equipment.
MIL-STD-810	Environmental Test Methods.

DRAWINGS**ELECTRONICS COMMAND**

SC-DL-11417 Reeling Machine, Cable, Hand RL-31().

(Copies of specifications, standards, drawings, and publications required by suppliers in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer. Both the title and number or symbol should be stipulated when requesting copies.)

3. REQUIREMENTS

3.1 Description.- Reeling Machine, Cable, Hand RL-31() is a portable hand operated reel unit designed to facilitate paying out and recovering field wire on Reels DR-5() and RL-159()/U. It consists of a frame assembly, a split axle assembly, 2 hand brakes, 2 cranks and 2 straps, and has a capacity of 1 each Reel DR-5() or 2 each Reel RL-159()/U.

3.2 Construction.- The equipment shall be constructed in accordance with the requirements of this specification, and of Drawing and Data List SC-DL-11417. (See 4.12).

3.3 Finish, protective.- The equipment shall be finished in accordance with MIL-F-14072 and equipment drawings. (See 4.3).

3.4 Marking.- Marking shall conform to MIL-M-13231. (See 4.3).

3.5 Welding.- Wherever practicable, welded joints shall conform to MIL-STD-22 and shall be such that grinding on the finished weld will be unnecessary. Spot, stitch, and seam welds shall conform to MIL-W-6858. Spot or other intermittent welds in aluminum or magnesium shall be limited to lightly stressed, noncritical structures. When spot or other intermittent welds are used to hold a part, the number of welds shall be at least two.

3.5.1 Cleaning prior to welding.- Surfaces to be welded shall be cleaned in accordance with good commercial practice and shall be free from rust, scale, paint, grease, and other foreign material.

3.5.2 Process.- Preheating shall be employed where distortion is likely to result from welding. Welds shall have thorough penetration and good fusion and shall be free from scabs, blisters, abnormal pock marks, cracks, voids, slag inclusions, and other harmful defects. Where undesirable internal stresses are likely to result from welding, welded items shall be stress-relieved. Inert-gas-shielded arc welding shall be used, when practicable, for welding of aluminum, magnesium, or stainless steel.

3.5.3 Cleaning after welding.- Welded assemblies shall be cleaned to remove rust, scale, oxidation products, and excess flux by sandblasting, wire brushing, or other suitable means. Prior to painting, steel parts that have been arc welded or acetylene welded shall, in addition, be subjected to vat passivation or a phosphoric acid etch in accordance with MIL-M-10578. Acid used for cleaning shall be completely neutralized and removed.

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3.6 Tropicalization.-

3.6.1 Treatment of material.- When materials are required to be treated, they shall be cleaned in accordance with requirement 9 of MIL-STD-454 and shall be treated as specified herein.

3.6.2 Treating materials.- Treating compounds containing a mercury-bearing fungicide shall not be used. The contractor shall determine that the treating compound is compatible with the material or surface to be treated. Selection of treating compound shall be such that there shall be no increase in flammability of the treated material.

3.6.3 Toxicity.- Treating compounds shall cause no skin irritation or other injury to personnel handling the treated material during fabrication, transportation, operation, or maintenance of the equipment, or during use of the finished items when used for the purpose intended.

3.6.4 Flexibility.- Treatment shall not affect the flexibility of the treated material, to the extent that the reeling machine may fail to meet specified requirements when subjected to specified service conditions.

3.6.5 Statement of treatment.- The statement of treatment shall indicate whether or not nutrient materials have been employed. If nutrient materials have been used, it shall also describe in detail the materials to be treated and the treating compounds and processes that the contractor proposes to use. (See 6.2(f)).

3.7 Interchangeability.- Like units, assemblies, subassemblies and replaceable parts shall conform to requirement 7 of MIL-STD-454 and shall be physically and functionally interchangeable, without modification of such items or of the equipment. (See 4.5).

3.8 Crank GC-4().- When tested in accordance with 4.6, the crank shall properly fit each end of the axle and shall be capable of rotating the axle with reels by hand.

3.9 Brake GC-10().- When tested in accordance with 4.7, the brake shall bring each Reel RL-159()/U and the DR-5(), fully loaded with Wire WD-1/TT, to a smooth stop from a speed of 300-350 rpm within 5 seconds and shall properly fit each end of the split axle.

3.10 Operational.- When tested in accordance with 4.8, the Reeling Machine RL-31() shall perform satisfactorily. There shall be no binding or seizing of axle bearings and the brakes shall not seize and shall smoothly stop the rapidly turning loaded reel of wire.

3.11 Operational life.-- The equipment shall be capable of continuous operations with no binding or seizing of axle bearings and the brakes shall not seize and shall smoothly stop the rapidly turning reel when tested as specified in 4.9. The equipment shall then be tested per 4.5 and meet the requirements of 3.7.

3.12 Service conditions.-- The equipment shall meet the following service conditions:

3.12.1 Moisture resistance.-- The equipment shall be examined 24 hours after the test specified in 4.10.1 and there shall be no evidence of corrosion, or any other form of deterioration. The equipment shall then meet the requirements of 3.10.

3.12.2 Temperature.-- The equipment shall perform satisfactorily when tested per 4.10.2 and meet the requirements of 3.10 at steps specified.

3.12.3 Bounce.-- After subjection to the bounce test per 4.10.3, the equipment shall be capable of meeting the requirements of 3.10 and there shall be no physical damage except minor surface abrasions.

3.12.4 Vibration.-- The equipment shall have no mechanical resonance below 55 cycles per second when tested per 4.10.4, and meet the requirements of 3.10.

3.13 Technical literature.-- Technical literature shall be furnished as specified in the contract. (See 6.2).

3.14 Workmanship.-- The equipment shall be manufactured and assembled in a thoroughly workmanlike manner in accordance with the applicable portions of the following paragraphs: (See 4.11).

- 3.5.1 Cleaning prior to welding
- 3.5.2 Process
- 3.5.3 Cleaning after welding
- 3.6 Tropicalization

4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection.-- Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified, the supplier may utilize his own facilities or any commercial laboratory acceptable to the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure that supplies and services conform to prescribed requirements.

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4.2 Classification of inspection.- Inspection shall be classified as follows:

(a) Inspection covered by subsidiary documents. (See 4.3).

(b) Quality conformance inspection.

(1) Quality conformance inspection of equipment before preparation for delivery. (See 4.4).

(2) Quality conformance inspection of preparation for delivery. (See 4.13).

4.3 Inspection covered by subsidiary documents.- The following shall be inspected under the applicable subsidiary documents as part of the inspection before preparation for delivery:

<u>Item</u>	<u>Where required</u>
Finish, protective	3.3
Marking	3.4

4.4 Quality conformance inspection of equipment before preparation for delivery.- The contractor, to demonstrate compliance with specified requirements shall perform the inspection specified in 4.3 and 4.4.1 through 4.4.4. This does not relieve the contractor of his responsibility for performing any additional inspection which is necessary to control the quality of the product and to assure compliance with all specification requirements. The Government will review and evaluate the contractor's inspection procedures and examine the contractor's inspection records. In addition, the Government--at its discretion--may perform all or any part of the specified inspection, to verify the contractor's compliance with specified requirements. Test equipment for Government verification inspection shall be made available by the contractor.

4.4.1 Group A inspection.- Each unit (100%) of each lot of equipment shall be inspected for conformance with all the inspection and test requirements of table I. Each lot will be subject to verification utilizing the procedures of MIL-STD-105 using the general inspection levels and the AQLs indicated in table I and table IV. Group A inspection shall be performed in any order which is satisfactory to the Government.

Table I - Group A inspection

Inspection	Req. Para.	Insp. Para.	AQL	
			Major	Minor
Visual and mechanical	3.14	4.11	1.0%	4.0%
Crank GC-4()	3.8	4.6	1.0%	
Brake GC-10()	3.9	4.7	1.0%	

4.4.2 Group B inspection.- This inspection, including sampling, shall conform to table II and to the special procedures for small-sample inspection of MIL-STD-105. The AQL and the inspection level shall be as listed in table II for normal, tightened, and reduced inspection. Group B inspection shall normally be performed on inspection lots that have passed group A inspection and on samples selected from units that have been subjected to and met the group A inspection.

Table II - Group B inspection

Inspection	Req. Para.	Insp. Para.	Insp. Level	AQL
Interchangeability	3.7	4.5	S-4	1.0%
Operational	3.10	4.8	S-3	1.0%
Operational life	3.11	4.9	S-1	1.0%

4.4.3 Group C inspection.- This inspection shall consist of the tests specified in table III and shall be performed on sample units that have been subjected to and met groups A and B inspection. Sample units shall be selected at random without regard to their quality except that the samples selected at the start of production shall be selected from the first units produced. The tests specified in table III shall be performed on 2 units at the beginning of production and every 3 months or every 2,000 units, whichever comes first, except that moisture resistance test shall be performed 1 time only.

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Table III - Group C inspection

Inspection	Req. Para.	Insp. Para.
Moisture resistance	3.12.1	4.10.1
Temperature	3.12.2	4.10.2
Bounce	3.12.3	4.10.3
Vibration	3.12.4	4.10.4
* Equipment Verification Review	3.2	4.12

* The Equipment Verification Review shall be performed once on the initial production lot only.

4.4.3.1 Noncompliance.- The contractor shall immediately report, in writing, each group C failure occurrence, including details of the failure and characteristics affected. The contractor shall immediately investigate the cause of failure and further report the results of investigation and details of the proposed corrective action on (i) the process and materials, as applicable, and (ii) all units of product which were manufactured under the same conditions and which the Government considers subject to the same failure. Reports shall be forwarded to the responsible technical activity designated in the contract through the Quality Assurance Representative. After corrective action has been taken, additional sample units shall be subjected to group C inspection (all inspections or the inspections which the sample failed, at the option of the Government) and groups A and B inspection may be reinstated; however, final acceptance and shipment will be withheld until the group C reinspection results have shown that the corrective action was effective.

4.4.4 Reinspection of conforming group B and group C sample units.- Unless otherwise specified, sample units which have been subjected to and passed group B or group C inspection, or both, may be accepted on contract, provided that they are resubjected to and pass group A inspection after repair of all visible damage.

4.5 Inspection for dimensional interchangeability.- The dimensions listed below shall be gaged or measured to determine conformance to the physical interchangeability requirement of 3.7. When a listed dimension is not within specified or design limits, it shall be considered a major defect.

- (a) Crank GC-4() - I.D. 1-1/32" square hole \pm 1/64".
- (b) Brake GC-10() - I.D. 1-1/32" square hole \pm 1/64".
- (c) Axle - O.D. 1" square \pm 1/64".

4.6 Crank GC-4().- With axle loaded with 2 reels RL-159()/U, each having 1 mile of Wire WD-1/TT followed by 1 reel DR-5() loaded with 2 miles of Wire WD-1/TT, the crank shall be placed on each end of the reel axle and rotated. The equipment shall meet the requirements of 3.8.

4.7 Brake GC-10().- With axle loaded with 2 reels RL-159()/U each loaded with 1 mile of Wire WD-1/TT followed by reel DR-5() having 2 miles of Wire WD-1/TT, apply pressure to the lever handle of each brake when turning 300-350 rpm. The equipment shall meet the requirements of 3.9.

4.8 Operational.- The equipment loaded with 2 reels RL-159()/U each having 1 mile of Wire WD-1/TT shall be operated to simulate paying out wire at a speed of 1,320 feet per minute. Each RL-159()/U shall be rotated with the other reel held stationary until the wire is completely payed out and meet the requirements of 3.10.

4.8.1 Repeat the test of 4.8 with 1 reel DR-5() loaded with 2 miles of Wire WD-1/TT and meet the requirements of 3.10.

4.9 Operational life.- Four equipments, 2 loaded per 4.8 and 2 per 4.8.1, shall be operated to simulate paying out wire at a speed of 1,320 feet per minute. Each RL-159()/U shall be rotated separately. Each RL-159()/U and DR-5() shall be run continuously for 6 hours and meet the requirements of 3.11.

4.10 Service conditions.-

4.10.1 Moisture resistance.- Two equipments shall be subjected to 15-48 hour cycles. Temperature, relative humidity and period of time for each portion of the cycle shall conform to MIL-STD-170. (See 3.12.1).

4.10.2 Temperature.- One equipment shall be subjected to 1 cycle of the temperature test shown on MIL-STD-169 and meet the requirements of 3.12.2. During steps 4, 8 and 10 of the cycle, the equipment shall be tested per 4.8 and 4.8.1.

4.10.3 Bounce.-- The equipment shall be tested in accordance with MIL-STD-810, Method 514, Procedure IX, Part 2, and meet the requirements of 3.12.3.

4.10.4 Vibration.-- The equipment shall be tested as follows to determine compliance with 3.12.4.

4.10.4.1 The equipment shall be fastened in its normal mounting position on a vibration table that can be controlled within 10 percent of the specified amplitude. The vibration table shall provide approximately sinusoidal vibration.

4.10.4.2 The equipment shall be vibrated successively in 3 mutually perpendicular directions that are parallel respectively to the edges of the equipment, over a frequency range of 10 to 55 cycles per second, in 1-cycle-per-second steps and maintain each frequency for at least 10 seconds. The total input excursion shall be constant at 1/64 inch.

4.10.4.3 Mechanical resonance, if any, of the complete structure, of sub-assemblies, and of component parts shall be determined visually by means of a Strobotac, as made by the General Radio Corporation, Cambridge, Massachusetts, or equal, or by other means, provided that vibration of the part is not affected by the measurement.

4.11 Visual and mechanical.-- Equipment shall be examined for defects listed in table IV. (See 3.14).

Table IV.- Classification of visual and mechanical defects

Classification	Defects
Major	Misalignment of reel shaft. Poor welds. Brake not operating correctly after all adjustments are made. Bent supports. Shaft, not spinning freely, binding or jamming. Parts are not complete.
Minor	Brake adjustment not correct. Improperly assembled. Painting not complete. Small scratches. Flaking or peeling of paint.

4.12 Equipment verification review.- The contractor shall perform an Equipment Verification Review (EVR), consisting of a complete technical audit of the equipment on order against the drawings cited for Construction (See 3.2). The EVR shall consist of the following:

4.12.1 An audit to establish that "as-built" equipment (unit, assembly, module, or part) is in accordance with the cited end product drawings.

4.12.2 An audit to establish that "as-built" configuration of unit, assembly, module, or part meet the acceptance requirements (other than equipment specification performance) specified for each unit, assembly, module, or part. The audit shall record all acceptance test methods used together with resulting verification test data.

4.12.3 The contractor shall compile an EVR report(s) containing the following information:

(a) Identification of unit, assembly, module, or part and details proving compliance with 4.12.1 and 4.12.2 above.

(b) Discrepancies noted.

(c) Corrective action taken.

4.12.4 The contractor shall make available to the Government copies of his EVR report(s) no later than 15 days prior to the submission of the first production unit or lot. The results of the EVR shall be subject to inspection by authorized Government personnel at the time the first unit or production lot is offered for acceptance. Government inspection will be to the depth and extent necessary to demonstrate that the "as-built" hardware is in accordance with the cited drawings. Copies of the EVR reports shall be made available to the Government personnel during the inspection. The contractor shall provide the following:

(a) Segregation of units, assemblies, modules, and parts to permit reviewing personnel access for detailed inspection.

(b) As required, responsible personnel from each functional department available for discussions in their respective areas.

(c) Adequate administrative support for the EVR.

4.13 Quality conformance inspection of preparation for delivery.- Preparation for delivery shall be inspected in accordance with MIL-P-116 to determine conformance to the requirements of section 5.

5. PREPARATION FOR DELIVERY

5.1 Preservation and packaging.- Preservation and packaging shall be level A or C as specified. (See 6.2(b)).

5.1.1 Level A.-

5.1.1.1 Cleaning.- Reeling Machine, Cable, Hand RL-31() shall be cleaned in accordance with process C-1 of MIL-P-116.

5.1.1.2 Drying.- Reeling Machine, Cable, Hand RL-31() shall be dried in accordance with the applicable procedure of MIL-P-116.

5.1.1.3 Preservation application.- As required in table V .

5.1.1.4 Unit packaging.- Each Reeling Machine, Cable, Hand RL-31() shall be packaged in accordance with items 1 through 9 of figure I and table V .

5.1.2 Level C.- Each Reeling Machine, Cable, Hand RL-31() shall be preserved and packaged in a manner that will afford adequate protection against corrosion, deterioration and damage during shipment from the supply source to the first receiving activity.

5.2 Packing.- Packing shall be level A, B or C as specified. (See 6.2(b)).

5.2.1 Level A.- No packing required.

5.2.2 Level B.- No packing required.

5.2.3 Level C.- Reeling Machine, Cable, Hand RL-31(), packaged as specified in 5.1, shall be packed in shipping containers in a manner that will afford adequate protection against damage to the package and its contents during shipment from the supply source to the first receiving activity. Shipping containers shall comply with the rules and regulations of the common carrier as applicable to the mode of transportation.

5.3 Marking.- In addition to any special marking required by the contract or order, interior packages and exterior shipping containers shall be marked in accordance with MIL-STD-129.

**BILL OF MATERIAL
TABLE V**

REF No.	ITEM Nomenclature	No. Reqd.	Method MIL- P-116	SIZE - INCHES			REQUIREMENT									
				L	W	D	Spec No.	T	C	V	G	F	S			
1	Technical Manual	2	1C-1													
2	Bag, Barrier	2		10-1/2	8-1/2		MIL-B-117	11	C							
	Box, Consolidated Fiberboard	1		11	3	12	PPP-B-636	CF	WR	SW	W5c					
	Containing parts packaged as follows:															
	Strap ST-19A		111													
	Cushion, Paperboard	2		14	8		PPP-P-291	1								2
	Tape, Paper Gunned	4		5	2		PPP-T-45	111				B				
	Brake Unit, GC-10-A	2	111													
	Cushion, Paperboard	2		14	11		PPP-P-291	1								2
	Tape, Paper Gunned	2		10	2		PPP-T-45	111				B				
	Crank GC-4-A	2	111													
	Cushion, Paperboard	2		14	7		PPP-P-291	1								2
	Tape, Paper Gunned	2		6	2		PPP-T-45	111				B				
	Lubrication L011-362	2	1C-1													
	Bag, Barrier	2		10-1/2	8-1/2		MIL-B-117	11	C							
	Box, Consolidated Closure															
	Tape, Pressure Sensitive	2		16	2		PPP-T-76									
3	Axle, Divided	1	1				Apply over bearing surfaces MIL-G-10924									
	Preservative Barrier	2		6	2		MIL-B-121	11	2			A				
	Tape, Paper Gunned	2		3	2		PPP-T-45	111				B				
Lev. A - PACKED WEIGHT							T - Type	V - Variety			F - Flute					
Lev. A - PACKED VOLUME							C - Class	G - Grade			S - Style					

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**BILL OF MATERIAL
TABLE V**

REF No.	ITEM Nomenclature	No. Reqd.	Method MIL- P-116	SIZE - INCHES			REQUIREMENT									
				L	W	D	Spec No.	T	C	V	G	F	S			
4	Bag, FSN 8105-356-4677 Containing parts packaged as follows:	1	No pkg required.													
	Bracket Assy	2	1C-1													
	Bag, Barrier	2		5	4		MIL-B-117	11	C							
	Bracket Support	1	111													
	Paper, Wrapping	1		18	6		UU-P-268					B				
	Tape, Paper Gunned	2		6	2		PPP-T-45	111				B				
	Plate, Reinforcing	1	111													
	Paper, Wrapping	1		24	12		UU-P-268					B				
	Tape, Paper Gunned	2		4	2		PPP-T-45	111				B				
	Cleat	3	1C-1													
	Bag, Barrier	3		4	3		MIL-B-117	11	C							
	Spacer Assy	2	1C-1													
	Bag, Barrier	2		5	4		MIL-B-117	11	C							
	Spacer Sleeve	2	1C-1													
	Bag, Barrier	2		4	3		MIL-B-117	11	C							
	Bracket, Tire															
	Brace	1	111													
	Paper, Wrapping	1		30	15		UU-P-268									
	Tape, Paper Gunned	2		4	2		PPP-T-45	111				B				
	Bolts, Nuts and All Washers	Spares	111				FF-W-92									
	Bag, Mailing	1		6	4		PPP-B-20									
	Spacer	1	1C-1													
	Bag, Barrier	1		4	3		MIL-B-117	11	C							
Lev. A - PACKED WEIGHT							T - Type	V - Variety	F - Flute							
Lev. A - PACKED VOLUME							C - Class	G - Grade	S - Style							

BILL OF MATERIAL
TABLE V

REF No.	ITEM Nomenclature	No. Req'd	Method MIL-P-116	SIZE - INCHES			REQUIREMENT								
				L	W	D	Spec No.	T	C	V	G	F	S		
	Spacer	1	1C-1												
	Bag, Barrier Support Bracket	1		5	3		MIL-B-117	11	C						
	Cushion, Paperboard	2	111												
	Tape, Paper Gunned	2		13	11		PPP-P-291	1							2
	Strap, Reinforcement	4		6	2		PPP-T-45	111				B			
	Paper, Wrapping	1	111												
	Tape, Paper Gunned	1		28	15		UU-P-268					B			
5	Frame Assembly	1	No pkg Required									B			
	Assembling Hardware														
	Bag, Mailing						PPP-B-20								
6	Pad, Top and Bottom	2		22-3/4	5-3/8	5/8	PPP-F-320	CF	WR	SW		W5c			
7	Sleeve	1		38-1/2	23	5-1/2	PPP-F-320	CF	WR	SW		W5c			
8	Box, Fiberboard	1		32-1/8	6-1/8	39	PPP-B-636	CF	WR	SW		W5c			
9	Tape, Filament	2		102	1		PPP-T-97	1V							

Lev. A - PACKED WEIGHT
Lev. A - PACKED VOLUME

T - Type
C - Class

V - Variety
G - Grade

F - Flute
S - Style

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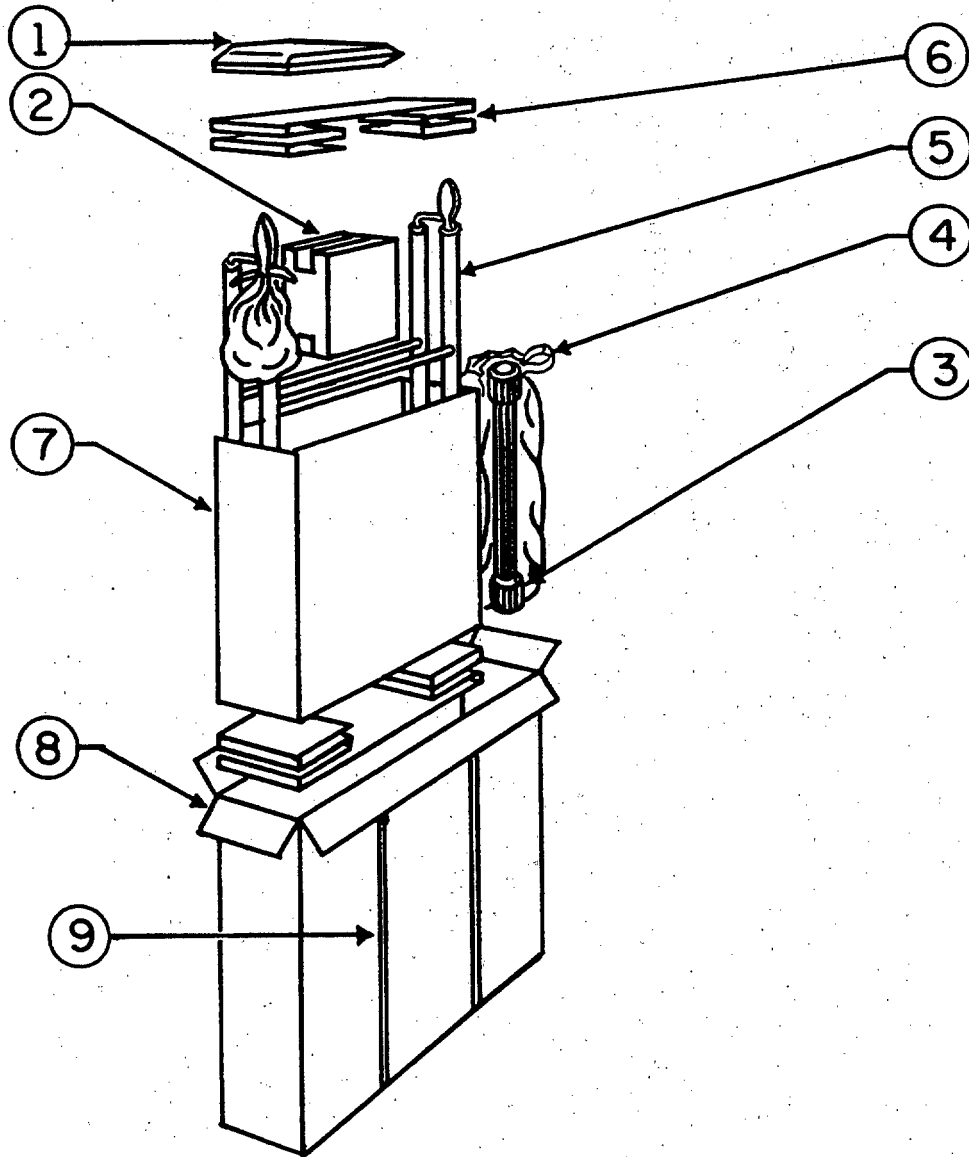


Figure 1

6. NOTES

6.1 Intended use.- Reeling Machine, Cable, Hand RL-31() is a hand operated lightweight, portable, reel unit used in paying out and recovering field Wire WD-1/TT on Reel DR-5() or Reel RL-159()/U.

6.2 Ordering data.- Procurement documents should specify the following:

- (a) Title, number, and date of this specification and any amendment thereto.
- (b) Levels of preservation and packaging and packing. (See section 5).
- (c) If rough handling and functional tests are required.
- (d) Dimensions of packaging materials in the Bill of Material Table are based on the dimensions of the equipment cited in the table. When the dimensions of the equipment vary, the dimensions of the packaging materials shall be adjusted accordingly.
- (e) Technical literature required. (See 3.13).
- (f) Submission of the statement of treatment referenced in 3.6.5 as soon as possible after award of contract. This statement should be submitted to the contracting officer.

6.3 Color of textiles.- Standard samples of Olive Drab No. 7 may be obtained from the Commanding General, Philadelphia Quartermaster Depot, 2800 South Twentieth Street, Philadelphia, Pennsylvania 19103. When requesting samples, indication should be given as to type of material concerned.

6.4 Nomenclature.- The parentheses in the nomenclature will be deleted or replaced by a letter identifying the particular design: for example, Reeling Machine, Cable, Hand RL-31(W). As soon as possible after the award of the contract, the contractor should apply for nomenclature in accordance with the applicable clause in the contract. (See 1.1).

CUSTODIAN

ARMY EL

Preparing Activity

ARMY EL

Project No. 3895-A095

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 22-R255
<p>INSTRUCTIONS: This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.</p>		
SPECIFICATION		
MIL-R-12329D(EL), REELING MACHINE, CABLE, HAND RL-31()		
ORGANIZATION		
CITY AND STATE		CONTRACT NUMBER
MATERIAL PROCURED UNDER A		
<input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
<p>1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE?</p> <p>A. GIVE PARAGRAPH NUMBER AND WORDING.</p>		
<p>B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES</p>		
<p>2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID</p>		
<p>3. IS THE SPECIFICATION RESTRICTIVE?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)</p>		
<p>4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)</p>		
SUBMITTED BY (Printed or typed name and activity - Optional)		DATE

To detach this form at along this line

 DD FORM 1426
1 JAN 65

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.

ESC-FM 1068-68