

MIL-STD-242J(NAVY), PART 10  
23 JUNE 1986

SUPERSEDING

MIL-STD-242H(NAVY), PART 10  
10 June 1983

# MILITARY STANDARD

## ELECTRONIC EQUIPMENT PARTS SELECTED STANDARDS

WIRE AND CABLE



AMSC N/A

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FSC 59GP

MIL-STD-242J(NAVY), PART 10

DEPARTMENT OF DEFENSE  
Washington, D. C. 20363

ELECTRONIC EQUIPMENT PARTS, SELECTED STANDARDS, WIRE AND CABLE

MIL-STD-242J(NAVY), PART 10

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## MIL-STD-242J(NAVY)-PART 10

## FOREWORD

This Military Standard Part provides equipment designers and manufacturers with a list of Wire and Cable having quality levels most acceptable in the design and construction of military systems and equipments. It also will aid to control and minimize logistic support. The criteria used in selecting parts are as follows:

1. Application need. Parts must satisfy the widest range of design requiring reliable parts.
2. Technological maturity. The design of the part must be final and must use proven materials and technologies. It must have been in production for a period sufficient to ensure that the design and process parameters have been identified and adequate quality controls have been developed.
3. Availability. The part must be in production by at least one manufacturer whose previous performance indicates ability to qualify to specifications of this standard. There must also be reasonable expectation that the part will not be obsolescent for at least seven years. Microcircuits are excluded from this requirement because of rapid technological changes.
4. Test or usage history. Sufficient test or usage data to predict part reliability must available.

In the event of conflict between the technical description of standard parts in this standard and the applicable specification, the specification shall govern.

Technical information included in this standard was obtained from military specifications and standards; no warranty is made of data accuracy, or that inclusion of these parts will assure equipment/systems will meet performance requirements of any contracts. The contractor is responsible for conducting necessary tests and inspections of selected parts to ensure that contract requirements are met.

Review activities:  
Navy-AS, SH

User activity:  
Navy-MC

Preparing activity:  
Navy - EC

(Project Number 59GP-N061)

## MIL-STD-242J(NAVY), PART 10

## WIRE AND CABLE

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## MIL-STD-242J(NAVY), PART 10

## WIRE AND CABLE

1. SCOPE.

- 1.1 Scope. This Standard Established The Requirements For The Selection Of Wire And Cable Used In The Design And Manufacture Of Navy Equipment.
- 1.2 Purpose. The Purpose Of This Standard Is To Control And Minimize The Variety Of Wire And Cable In Navy Equipment In Order To Facilitate Effective Logistic Support, Improve Quality And Reduce Cost.

2. REFERENCED DOCUMENTS.

- 2.1 The Issues Of The Following Documents In Effect On The Date Of Invitation For Bids Form A Part Of This Standard To The Extent Specified HereIn.

## SPECIFICATIONS

## MILITARY

- MIL-C-17 Cables, Radio Frequency  
General Specifications For
- MIL-C-915 Cables, Electric, For Shipboard Use  
General Specification For
- MIL-C-3432 Cables, (Power And Special Purpose) And Wire, Electrical  
(300 And 600 Volts) General Specification For
- MIL-W-16878 Wire, Electrical, Insulated,  
General Specification For
- MIL-W-22759 Wire Electric Fluoropolymer-Insulated Copper Or Copper  
Alloy, General Specification For
- MIL-C-24643 Cable And Cord, Low Smoke, For Shipboard Use,  
General Specification For
- MIL-C-28830 Cables, Radio Frequency, Coaxial, Semirigid, Corrugated  
Outer Conductor, General Specification For
- MIL-C-28777 Cable Assembly, Electronic Test Equipment, (3 Wire, 125 And 250 Volts ac  
And 250 Volts ac And 28 Volts dc) Grounding Plug Connector,  
General Specification For
- MIL-W-81822 Wire, Electrical, Solderless Wrap, Insulated And Uninsulated,  
General Specification For

## FEDERAL

- QQ-W-343 Wire, Electrical, Copper (Uninsulated)

## MIL-STD-242J(NAVY), PART 10

## WIRE AND CABLE

3. DEFINITIONS.

3.1 The Terms Used In This Standard Are Defined In Referenced Documents.

4. GENERAL REQUIREMENTS.

4.1 Selection of Devices. Wire And Cable Shall Be Selected From Types Listed In This Standard. The Variety Of Types Used In Any Navy Equipment Shall Be The Minimum Necessary To Provide Satisfactory Performance And The Contractor (Hardware Designer/Builder) Shall Exercise All Reasonalbe Design Choices To Achieve This Objective.

4.2 Criteria For Inclusion In This Standard.

(A). The Device Must Satisfy A Wide Range Of Design Requirements.

(B). At Least One Manufacturer Is Qualified To The Applicable Detail Specification.

(C). There Is Reasonable Assurance That The Device Will Be Available For At Least Seven Years.

4.3 Wire And Cable Characteristics. The Characteristics Listed Herein Are For Reference Only And Are Intended As An Aid In Selecting Devices. The Applicable Detail Specification Shall Be used For All Final Design Criteria.

4.4 Conflict Of Data. In The Event Of Conflict Between The Technical Description Of Devices In This Standard And The Applicable Detail Specification, The Detail Specification Shall Govern.

5. WIRE AND CABLE IDENTIFICATION.

5.1 Wire And Cable Identification Is The Part Number Or Type Designator As Listed In This Standard.

## 6. NOTES

6.1 Subject term (key word) listing.

Electrical  
Radio Frequency  
Cables  
Coaxial  
Wire  
Insulated  
Uninsulated  
Copper

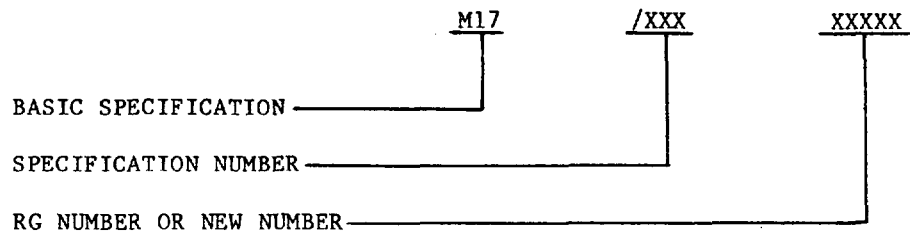
## MIL-STD-242J(NAVY), PART 10

## CABLES, RADIO FREQUENCY, COAXIAL

MIL-C-17

SCOPE: THIS SECTION COVERS FLEXIBLE AND SEMIRIGID CABLES WITH SOLID AND SEMISOLID DIELECTRIC CORES, WITH SINGLE, DUAL AND TWIN INNER CONDUCTORS. THESE CABLES ARE PRIMARILY INTENDED FOR USE AS TRANSMISSION LINES TO CONDUCT ENERGY IN A SINGLE POWER TRANSFER CONTINUOUSLY OR INTERMITTENTLY. THESE ARE FOR LOW LOSS, STABLE OPERATION FROM RELATIVELY LOW FREQUENCIES THROUGH HIGHER FREQUENCIES ENCOUNTERED IN THE MICROWAVE AND RADAR REGIONS OF THE FREQUENCY SPECTRUM. IN TABLE I. M39012/CVRSN REPRESENTS CONVERSION TO MIL-C-39012/SLASH NUMBER - DASH NUMBER.

PART NUMBER: THE PART NUMBER SHALL CONSIST OF THE FOLLOWING:



## RADIO FREQUENCY SELECTION GUIDE

## 50 OHM, FLEXIBLE, COAXIAL

CABLE CODE	NATO DESIGNATOR	OUTSIDE DIMENSIONS	TEMPERATURE °C	JACKET	FREQUENCY GHz	CONDUCTORS
RG058	NWR-2	.195	-40 TO +85	PVC	1	STRANDED INNER
RG122	NWR-47	.160	-40 TO +85	PVC	1	STRANDED INNER
RG142	NWR-25	.195	-55 TO +200	FEP	12.4	SOLID INNER
RG165	NWR-10	.410	-55 TO +250	FIBERGLASS	3	SOLID INNER
RG174	NWR-45	.110	-40 TO +85	PVC	1	STRANDED INNER
RG178	NWR-34	.071	-55 TO +200	FEP	3	STRANDED INNER
RG211	NWR-13	.730	-55 TO +250	FIBERGLASS	1	SOLID INNER
RG212	NWR-50	.332	-40 TO +85	PVC	11	SOLID INNER
RG213	NWR-1	.405	-40 TO +85	PVC	1	STRANDED INNER
RG214	NWR-35	.425	-40 TO +85	PVC	11	STRANDED INNER
RG223	NWR-48	.212	-40 TO +85	PVC	12.4	SOLID INNER
M17/86-00001	NWR-36	.390	-55 TO +200	FIBERGLASS	10	STRANDED INNER
M17/87-00001		.500	-55 TO +200	FEP	10	STRANDED INNER
RG303	NWR-30	.170	-55 TO +200	FEP	3	SOLID INNER
RG316	NWR-32	.098	-55 TO +200	FEP	3	STRANDED INNER
RG393		.390	-55 TO +200	FEP	11	STRANDED INNER
RG400		.195	-55 TO +200	FEP	12.4	STRANDED INNER
M17/134-0001		.245	-40 TO +70	POLYETHYLENE	3	STRANDED INNER
M17/134-0002		.245	-40 TO +70	POLYETHYLENE	3	STRANDED INNER

## MIL-STD-242J(NAVY), PART 10

## CABLES, RADIO FREQUENCY, COAXIAL

MIL-C-17

## 50 OHM, SEMI-RIGID, COAXIAL

CABLE CODE	NATO DESIGNATOR	OUTSIDE DIMENSIONS	TEMPERATURE °C	JACKET	FREQUENCY GHz	CONDUCTORS
RG402	NWR-49	.141	-40 TO +100	COPPER	20	SOLID INNER
RG401	NWR-51	.250	-40 TO +90	COPPER	18	SOLID INNER

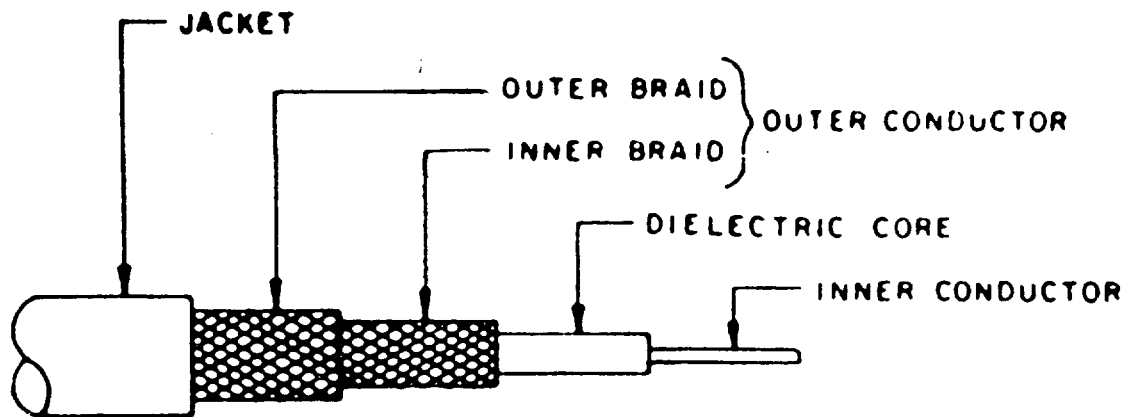
## VARIOUS IMPEDANCES, FLEXIBLE, COAXIAL

CABLE CODE	NATO DESIGNATOR	OHMS	OUTSIDE DIMENSIONS	TEMPERATURE °C	JACKET	CONDUCTOR
RG6		75	.332	-40 TO +85	PVC	DOUBLE SHIELD, COPPERWELD
RG11	NWR-18	75	.405	-40 TO +85	PVC	STRANDED CENTER
RG59	NWR-11	75	.242	-40 TO +85	PVC	COPPERWELD
RG062	NWR-12	93	.242	-40 TO +80	PVC	COPPERWELD
RG179	NWR-33	75	.100	-55 TO +200	FEP	STRANDED CENTER, COPPERWELD
RG180		95	.141	-55 TO +200	FEP	STRANDED CENTER, COPPERWELD
RG216	NWR-53	75	.425	-40 TO +85	PVC	STRANDED CENTER
RG302	NWR-31	75	.202	-55 TO +200	FEP	COPPERWELD
RG71		93	.245	-55 TO +85	POLYTHN	SOLID INNER



## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FEXIBLE, COAXIAL, M17/2-RG6

MIL-C-17/2

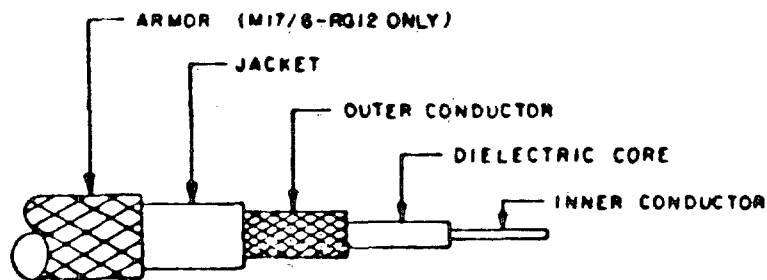
PART NUMBER: M17/2-RG6

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
2-RG6	INR CNDCT	.0285 IN	SOL, COP-COV, STL W	01-0027
	DIEL CORE	.185 IN	TYPE A-1: SOL POLTHN	02-0043
	OUTR CNDCT	.264 IN MAX	DBL BRD OF AWG #34, COP W	03-0023
	JKT	.332 IN	TYPE IIa.	

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CABLES, RADIO FREQUENCY, FLEXIBLE COAXIAL, 75 OHMS, M17/6-RG11, UNARMORED

MIL-C-17/6

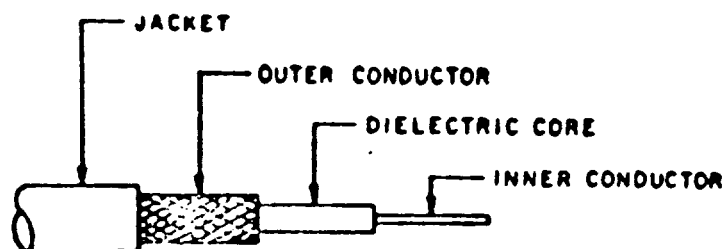
PART NUMBER: M17/6-RG011

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
06-RG011	INR CNDCT	.0477 IN	7-STRANDS OF TND COP W	01-0023
	DIEL CORE	.285 IN	TYPE A-1: SOL POLTHN	02-0042
	OUTER CNDCT	.340 IN MAX	SGL BRD OF AWG #33, BARE COP W	03-0020
	JKT	.405 IN	TYPE IIa.	

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/028-RG058

MIL-C-17/28

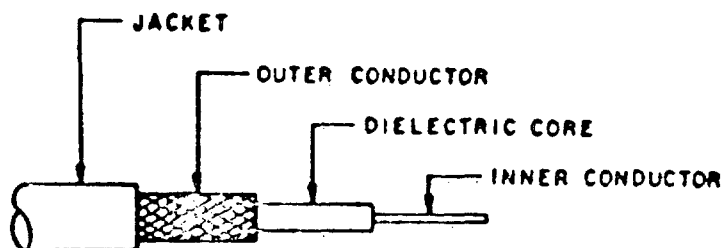
PART NUMBER: M17/028-RG058

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
028-RG058	INR CNDCT	.0355 IN	19-STRANDS OF TND COP W	55-3029
	DIEL CORE	.116 IN	TYPE A-1: SOL	56-3029
			POLTHN	57-3029
	OUTER CNDCT	.150 IN MAX	SGL BRD OF AWG #36, TND COP W	58-3029
	JKT	.195 IN	TYPE IIa: PVC	59-3029

## MIL-STD-242 J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 75 OHMS, M17/29-RG59

MIL-C-17/29

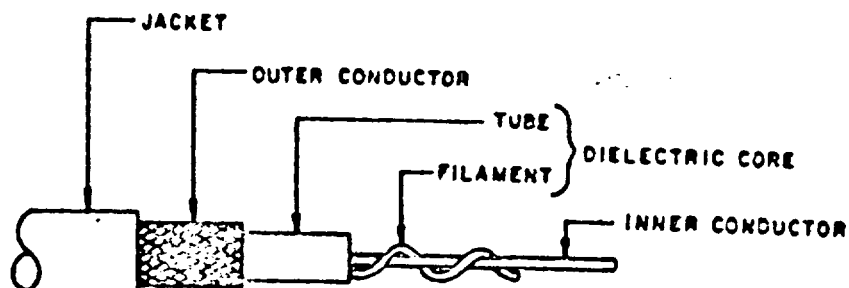
PART NUMBER: M17/29-RG59

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
029-RG59	INR CNDCT	.0226 IN	SOL, COP-COV, STL W	26-0012
	DIEL CORE	.146 IN	TYPE A-1: SOL	28-0012
	OUTER CNDCT	.191 IN MAX	POLTHN	29-0012
	JKT	.242 IN	SGL BRD OF AWG #34, BARE COP W TYPE IIa.	30-0012

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 93 OHMS, M17/030-RG062

MIL-C-17/30

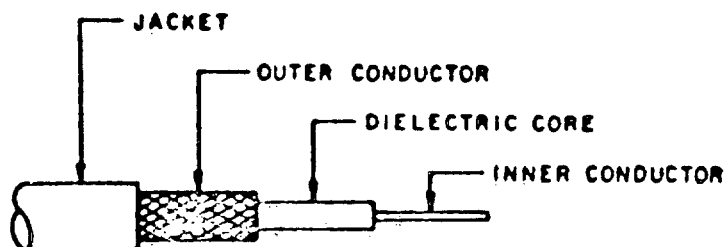
PART NUMBER: M17/030-RG062

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
030-RG062	INR CNDCT	.0253 IN	SOL COP-COV STL W	26-0012
	DIEL CORE	.146 IN	TYPE A-3: AIR-SPACED	28-0012
	OUTER CNDCT	.191 IN MAX	POLTHN.	29-0012
	JKT	.242 IN	SGL BRD OF AWG #34, BARE COP W TYPE IIa: PVC	30-0012

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/054-RG122

MIL-C-17/54

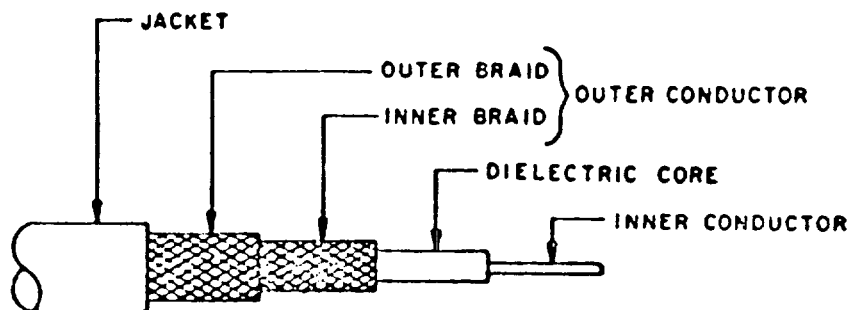
PART NUMBER: M17/54-RG122

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
54-RG122	INR CNDCT	.0308 IN	27-STRANDS OF TND COP W	55-3027
	DIEL CORE	.096 IN	TYPE A-1: SOL	57-3027
			POLTHN	58-3027
	OUTER CNDCT	.126 IN MAX	SGL BRD OF AWG #36, TND COP W	59-3027
	JKT	.160 IN	TYPE JIa: PVC	

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/060-RG142

MIL-C-17/60

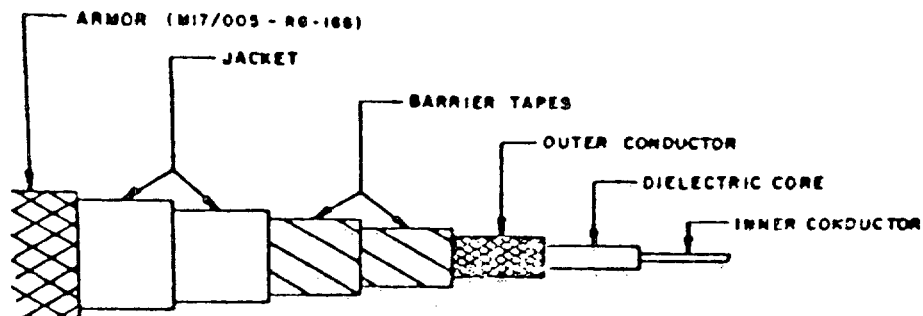
PART NUMBER: M17/060-RG142

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
060-RG142	INR CNDCT	.037 IN	SOL SIL-CTD, COP-COV, STL W	01-0503
	DIEL CORE	.116 IN	TYPE F-1: SOL EXT D PTFE	02-0513
	OUTER CNDCT	.171 IN MAX	DBL BRD OF AWG #36, SIL-CTD COP W	03-0503
	JKT	.195 IN	TYPE IX: FEP	05-0503
				38-0503
				55-4502
				56-3028
				57-4502
				58-4502
				59-4502

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE COAXIAL, 50 OHMS, UNARMORED, M17/065-RG165

MIL-C-17/65

PART NUMBER: M17/065-RG165

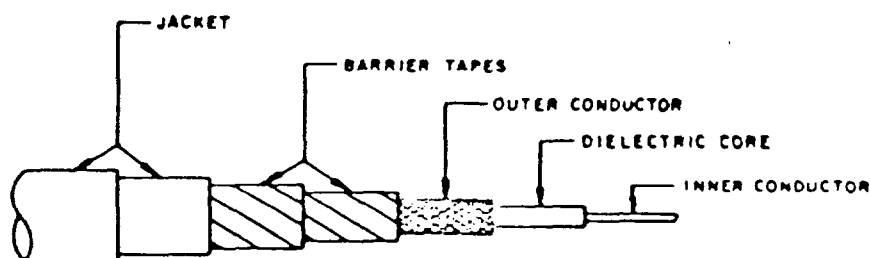
TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
065-RG165	INR CNDCT	.094 IN	7-STRANDS OF SIL-CTD COP W	01-0021 02-0041
	DIEL CORE	.285 IN	TYPE F-1: SOL EXTD PTFE	03-0018
	OUTER CNDCT	.340 IN MAX	SINGLE BRD OF AWG #34, SIL-CTD COP W	06-0002 07-0001
	BARR TAPES		TYPE FF-2: TWO WRAPS OF PTFE TAPE	08-0001 10-0001
	JKT	.410 IN	TYPE V. DBL BRD OF FIBERGLASS	11-0002



## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/72-RG211

MIL-C-17/72

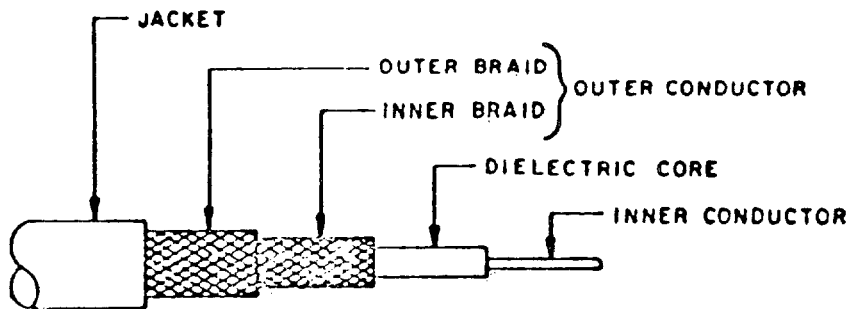
PART NUMBER: M17/72-RG211

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET
072-RG211	INR CNDCT	.192 IN	SOL BARE COP W
	DIEL CORE	.620 IN	TYPE F-1: SOL EXT PTFE
	OUTER CNDCT	.670 IN MAX	SGL BRD OF AWG #32, BARE COP W
	JKT	.730 IN	TYPE V: DBL BRD OF FIBERGLASS

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/73-RG212

MIL-C-17/73

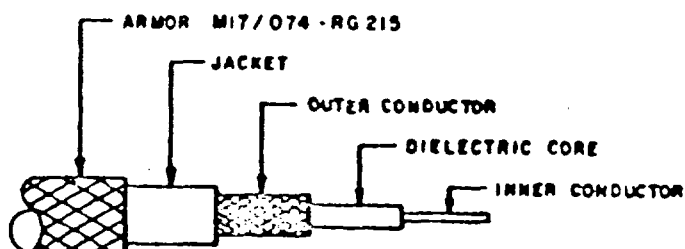
PART NUMBER: M17/73-RG212

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
073-RG212	INR CNDCT	.0556 IN	SOL SIL-CTD COP W	01-0016
	DIEL CORE	.185 IN	TYPE A-1: SOL POLTHN	02-0027
	OUTER CNDCT	.265 IN MAX	DBL BRD OF AWG #34, SIL-CTD COP W	03-0013
	JKT	.332 IN	TYPE IIa: PVC	06-0001
				07-0002
				08-0002
				11-0001

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, UNARMORED, M17/074-RG213

MIL-C-17/74

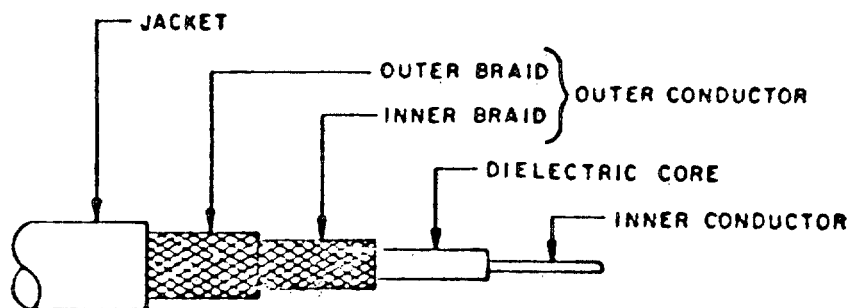
PART NUMBER: M17/74-RG213

TABLE I. CABLE DESCRIPTION

M17/ 074-RG213	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
	INR CNDCT	.0888 IN	7-STRANDS OF BARE COP W	05-0004
	DIEL CORE	.285 IN	TYPE A-1: SOL POLTHN	05-0502
	OUTER CNDCT	.340 IN MAX	SGL BRD OF AWG #33 BARE	06-0002
			COP W	07-0001
	JKT	.405 IN	TYPE IIa: PVC	08-0001
				10-0001
				11-0002

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/75-RG214

M17-C-17/75

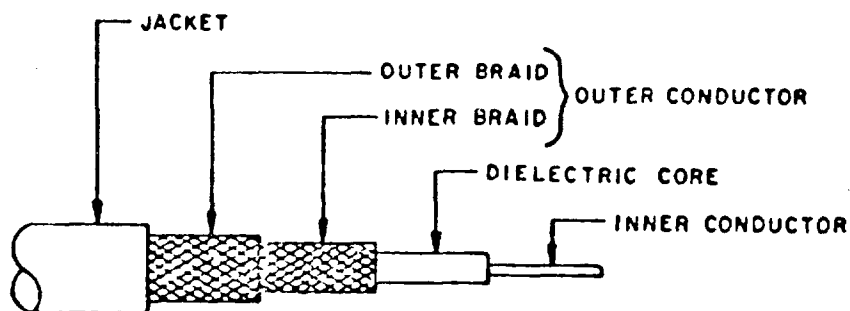
PART NUMBER: M17/75-RG214

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
075-RG214	INR CNDCT	.0888 IN	7-STRANDS OF SIL-CTD COP W	05-0005
	DIEL CORE	.285 IN	TYPE A-1: SOL POLTHN	05-0501
	OUTER CNDCT	.360 IN MAX	DBL BRD OF AWG #34, SIL-CTD COP W	06-0002
	JKT	.425 IN	TYPE IIa: PVC	07-0001
				08-0001
				10-0001
				11-0002
				36-0501

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 75 OHMS, M17/77-RG216

MIL-C-17/77

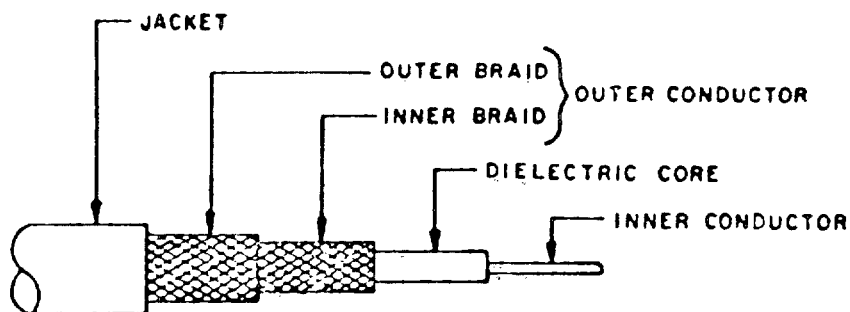
PART NUMBER: M17/77-RG216

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
077-RG216	INR CNDCT	.0477 IN	7-STRANDS OF TND, COP W	01-0024
	DIEL CORE	.285 IN	TYPE A-1: SOL POLTHN	03-0021
	OUTER CNDCT	.360 IN MAX	DBL BRD OF AWG #34, COP W	02-0030
	JKT	.425 IN	TYPE IIa. PVC	

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/084-RG223

MIL-C-17/84

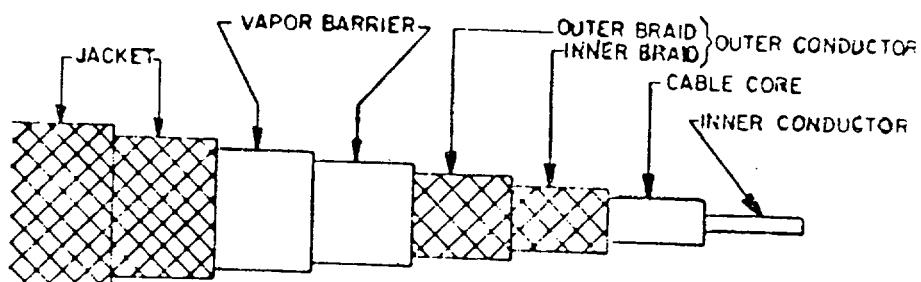
PART NUMBER: M17/084-RG223

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
084-RG223	INR CNDCT	.035 IN	SOL SIL-CTD COP W	26-0011
	DIEL CORE	.116 IN	TYPE A-1: SOL POLTHN	28-0011
	OUTER CNDCT	.176 IN MAX	DBL BRD OF AWG #36	29-0011
			SIL-CTD COP W	30-0011
	JKT	.212 IN	TYPE IIa: PVC	55-4028
				57-4028

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, COAXIAL, M17/086-00001

MIL-C-17/86

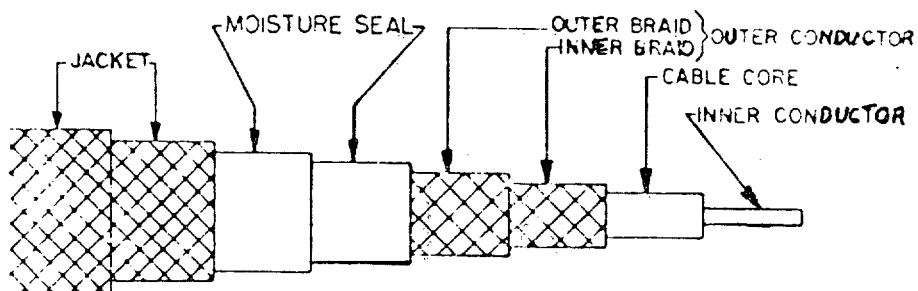
PART NUMBER: M17/086-00001

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET
086-00001	INR CNDCT	.0936 IN	7-STRD SOL SIL-CTD COP W
	CABLE CORE	.285 IN	TYPE F-1:
	OUTER CNDCT	.360 IN MAX	DBL BRD OF AWG #34 SIL-CTD COP W
	JKT	.430 IN	TYPE V: DBL BRD

## MIL-STD-242J(NAVY), PART 10

CABLE, RADIO FREQUENCY, COAXIAL, M17/87-00001

MIL-C-17/87

PART NUMBER: M17/87-00001

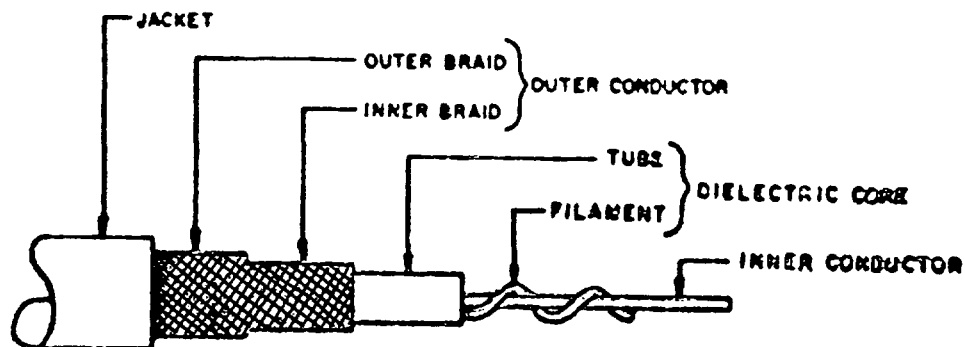
TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET
87-00001	INR CNDCT	.0234 IN	19-STRD SIL-CTD COP W
	CABLE CORE	.370 IN	TYPE F-2
	OUTER CNDCT	.440 IN MAX	DBL BRD OF AWG #34, COP W
	JKT	.500 IN	TYPE V, DBL BRD



## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 93 OHMS, M17/90-RG71

MIL-C-17/90

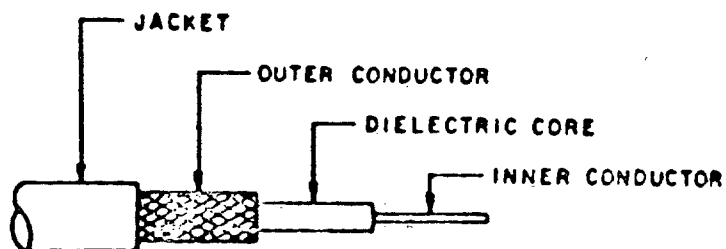
PART NUMBER: M17/90-RG71

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET
090-RG71	INR CNDCT	.0253 IN	SOL, COP-COV, STL W
	DIEL CORE	.146 IN	TYPE A-3: AIR-SPACED
			POLTHN
	OUTER CNDCT	.208 IN MAX	DBL BRD OF COP W
	JKT	.245 IN	TYPE IIIa

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/93-RG178

MIL-C-17/93

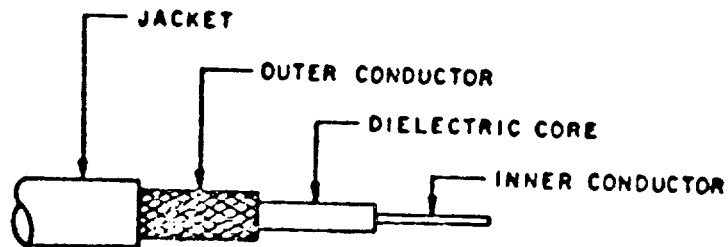
PART NUMBER: M17/93-RG178

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
93-RG178	INR CNDCT	.012 IN	7-STRANDS OF SIL-CTD,	55-3025
			ANL-COP-COV, STL W	57-3025
	DIEL CORE	.033 IN	TYPE F-1: SOL EXTD PTFE	58-3025
	OUTER CNDCT	.054 IN MAX	SGL BRD OF AWG #38,	59-3025
	JKT	.071 IN	SIL-CTD COP W TYPE IX: FEP	

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 75 OHMS, M17/094-RG179

MIL-C-17/94

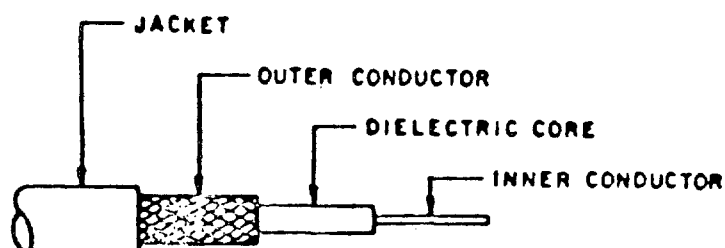
PART NUMBER: M17/94-RG179

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/CNVRs
094-RG179	INR CNDT	.012 IN	7-STRD OF SIL-CTD, ANL- COP-COV, TYPE F-1: SOL EXTRUDED SGL BRD OF AWG #38 SIL-CTD COP WIRE TYPE IX: PVC	73-0002
	DIEL CORE	.063 IN		73-0004
	OUTER CNDCT	.084 IN MAX		74-0002
	JKT	.100 IN		74-0004
				75-0002
			75-0004	
				76-0002
				76-0004

## MJL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 95 OHMS, M17/095-RG180

MJL-C-17/95

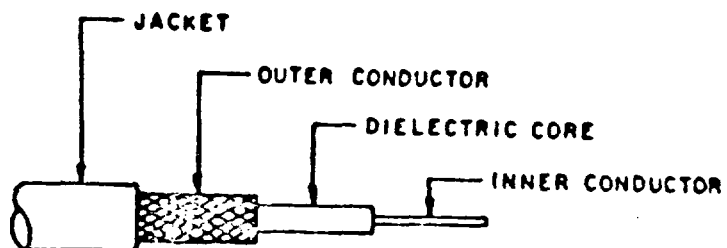
PART NUMBER: M17/095-RG180

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
095-RG180	INR CNDCT	.012 IN	7-STRANDS OF SIL-CTD,	26-0502
			ANL-COP-COV, STL W	27-0502
	DIEL CORE	.102 IN	TYPE F-1: SOL EXTD PTFE	28-0502
	OUTER CNDCT	.124 IN MAX	SGL BRD OF AWG #38,	29-0502
			SIL-CTD COP W	30-0502
	JKT	.141 IN	TYPE IX: FEP	

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 75 OHMS, M17/110-RG302

MIL-C-17/110

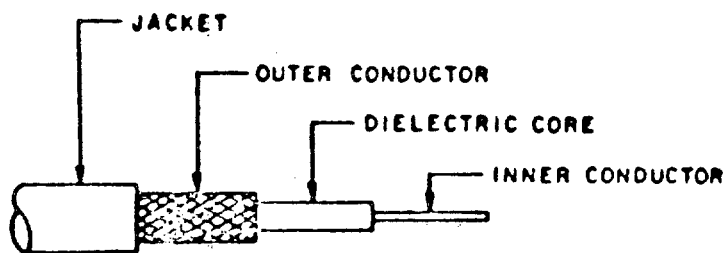
PART NUMBER: M17/110-RG302

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/ CVRSN
110-RG302	INR CNDCT	.0253 IN	SOL, SIL-CTD, COP-COV, STL W	26-0021
	DIEL CORE	.146 IN	TYPE F-1: SOL EXTD PTFE	28-0021
	OUTER CNDCT	.176 IN MAX	SINGLE BRD OF AWG #36, SIL-CTD, COP W	29-0021
	JKT	.202 IN	TYPE IX.	30-0021

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/111-RG303

MIL-C-17/111

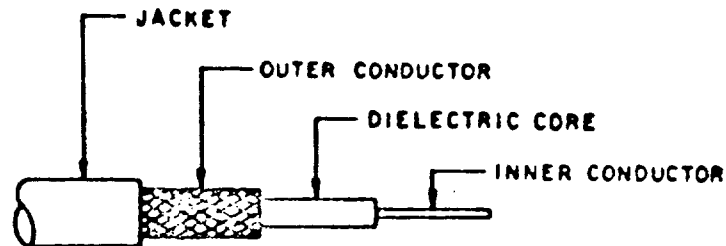
PART NUMBER: M17/111-RG303

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/CNVRS
111-RG303	INR CNDCT	.037 IN	SOL SIL-CTD, COP-COV, STL W	26-0010
				28-0010
	DIEL CORE	.116 IN	TYPE F-1: SOL, EXTD PTFE	29-0010
	OUTER CNDCT	.146 IN MAX	SGL BRD OF AWG #36	30-0010
			SIL-CTD COP W	55-4029
	JKT	.170 IN	TYPE IX: FEP	57-4029

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/113-RG316

MIL-C-17/113

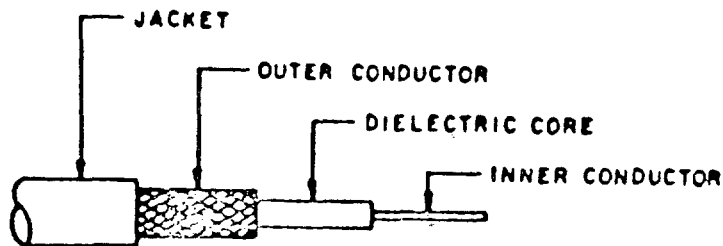
PART NUMBER: M17/113-RG316

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/CNVR
113-RG316	INR CNDT	.201 IN	7-STRD OF SIL-CTD, ANL-COP-COV STL W	26-0022
			TYPE F-1: SOL, EXTD PTFE	28-0022
	DIEL CORE	.060 IN	SGL BRD OF AWG #38	29-0022
	OUTER CNDCT	.081 IN MAX	SIL-CTD COP W	30-0022
			TYPE IX: FEP	55-4026
	JKT	.098 IN		57-4026
				73-0002
				73-0004
				74-0002
				74-0004
				75-0002
				75-0004
				76-0002
				76-0004

## MTL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/119-RG174

MTL-C-17/119

PART NUMBER: M17/119-RG174

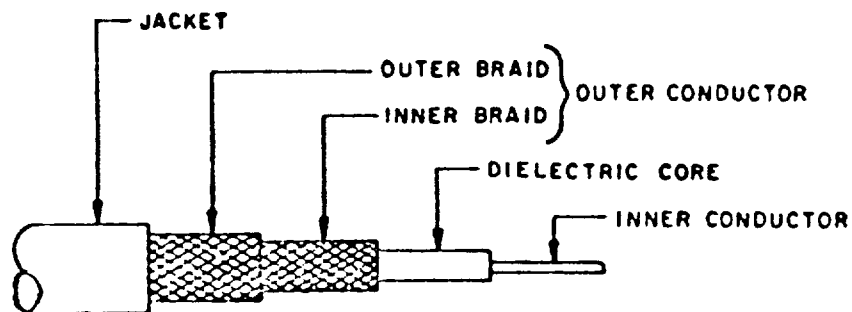
TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/CNVRs
119-RG174	INR CNDT	.0189 IN	7-STRD OF COP-COV STL W	26-0022
	DIEL CORE	.060 IN	TYPE A-1: SOL POLTHN	28-0022
	OUTER CNDCT	.088 IN MAX	SGL BRD OF AWG #38	29-0022
			TND COP W	30-0022
	JKT	.110 IN	TYPE II: PVC	55-3026
				56-3026
				57-3026
				58-3026
				59-3026
				73-0002
				73-0004
				74-0002
				74-0004
				75-0002
				75-0004
				76-0002
				76-0004



## MIL-STD-242 J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/127-RG393

MIL-C-17/127

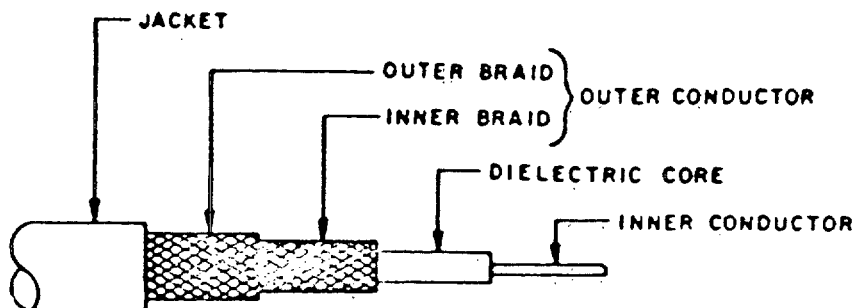
PART NUMBER: M17/127-RG393

TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/CNVRS
127-RG393	INR CNDT	.094 IN	7-STRD OF SIL-CTD, COP W	01-0501
	DIEL CORE	.285 IN	TYPE F-1: SOL EXTD PTFE	02-0511
	OUTER CNDCT	.360 IN MAX	DBL BRD OF AWG #34	03-0501
			SIL-CTD, COP W	05-0501
	JKT	.390 IN	TYPE IX: FEP	36-0501
				39-0501
				38-0501
				40-0501

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, FLEXIBLE, COAXIAL, 50 OHMS, M17/128-RG400

MIL-C-17/128

PART NUMBER: M17/128-RG400

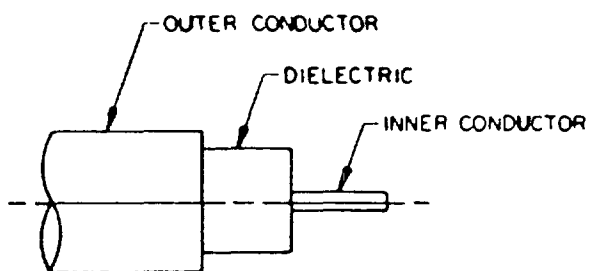
TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET
128-RG400	INR CNDT	.0384 IN	19-STRD OF SIL-CTD, COP W
	DIEL CORE	.116 IN	TYPE F-1: SOL EXTD PTFE
	OUTER CNDCT	.171 IN MAX	DBL BRD OF AWG #36, SIL-CTD, COP W
	JKT	.195 IN	TYPE IX

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, COAXIAL, 0.250 DIAMETER, SEMIGRID, 50 OHMS, M17/129-RG401  
AND -00001

MIL-C-17/129



PART NUMBER: M17/129-RG401 AND M17/129-00001

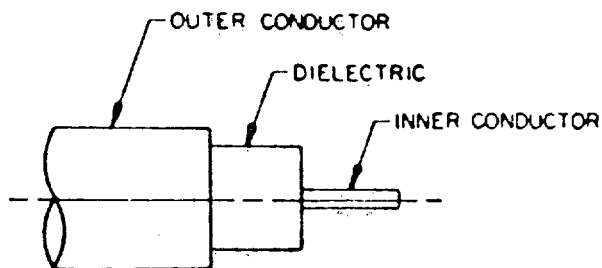
TABLE I. CABLE DESCRIPTION

M17/	CMPNT	DIA	CONSTR DET	M39012/CNVR
129-RG401	INR CNDT	.0641 IN	SOL, SIL-CTD,	112-0002
AND			COP-WIRE	113-0002
129-00001	DIEL CORE	.209 IN	TYPE F-1	114-0002
129-RG401	OUTER CNDCT	.250 IN	SMLS COP TUBING	115-0002
129-00001	OUTER CNDCT	.250 IN	SMLS COP TUBING TIN PLATED	116-0002

## MIL-STD-242 J(NAVY), PART 10

CABLES, RADIO FREQUENCY, COAXIAL, 0.141 DIAMETER, SEMIGRID, 50 OHMS,  
M17/130-RG402

MIL-C-17/130



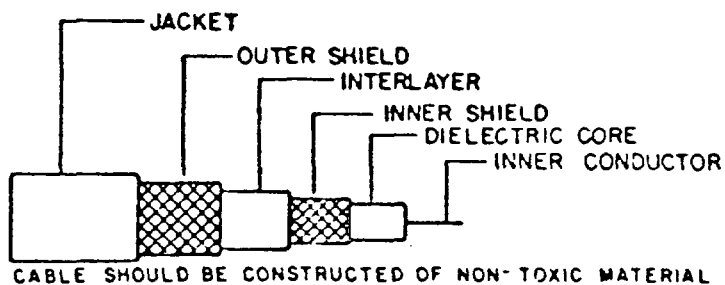
PART NUMBER: M17/130-RG402

TABLE T. CABLE DESCRIPTION

M17/ 130-RG402	CMPNT	DIA	CONSTR DET	M39012/CNVR
	INR CNDT	.0362 IN	SOL, SIL-CTD, COP-CLAD STL	79-3008
	DIEL CORE	.1175 IN	TYPE F-1	80-3008
	OUTER CNDCT	.141 IN	SMLS COP TUBING	81-3008
				82-3083
				83-3008

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, TRIAXIAL, 0.245 DIAMETER, 50 OHMS, WATERBLOCKED  
AND NON-WATER BLOCKED

MIL-C-17/134

PART NUMBERS: M17/134-0001 AND M17/134-0002

TABLE I. CABLE DESCRIPTION

M17/	COMPNT	DIA	CONSTR DET
134-0001	INR CNDT	.033 IN	SIL-CTD, COP-
134-0002	DIEL CORE	.116 IN	WIRE
	JKT	.245 IN	SOL POLYETHYLENE POLYURETHANE

## MIL-STD-242J(NAVY), PART 10

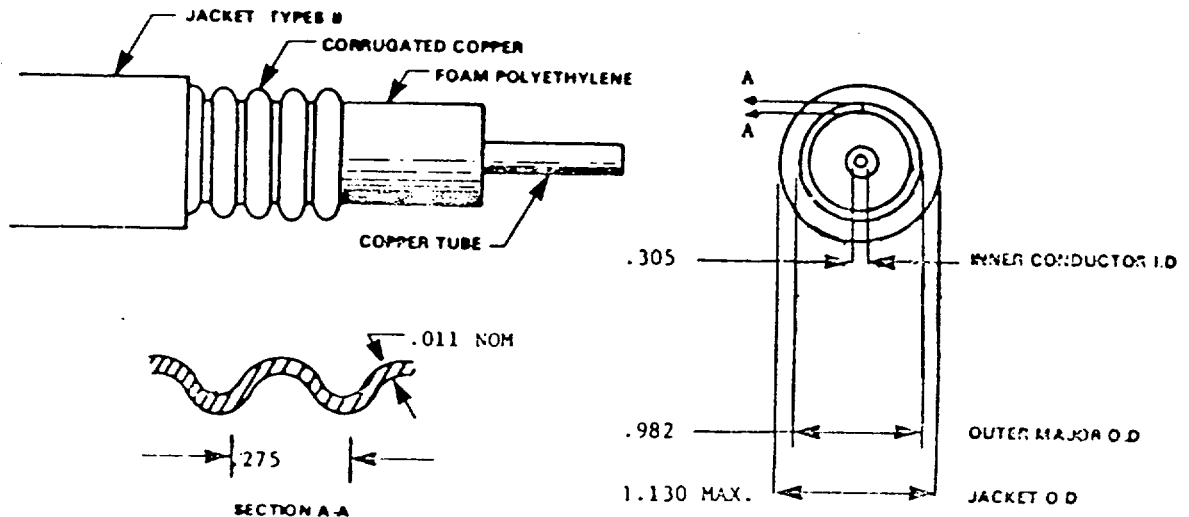
CABLES, RADIO FREQUENCY, COAXIAL, SEMIRIDGID, CORRUGATED OUTER CONDUCTOR,  
LOW LOSS FOAM DIELECTRIC, 7/8 INCH NOMINAL, 50 OHMS

MIL-C-28830

SCOPE: THIS SECTION COVERS COAXIAL, SEMIRIDGID, RADIO FREQUENCY CABLE WITH  
OUTER COPPER, CONDUCTORS. THESE CABLES ARE INTENDED FOR USE IN  
RADIO FREQUENCY APPLICATION.

PART NUMBER: M28830/4-II

	M28830	/4	-II
MILITARY SPECIFICATION NUMBER	_____	_____	_____
SPECIFICATION SHEET NUMBER	_____	_____	_____
JACKET MATERIAL	II	-	JACKETED (POLYETHYLENE)

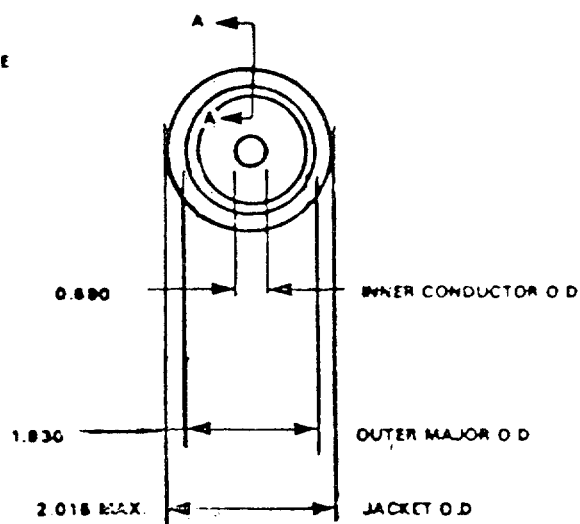
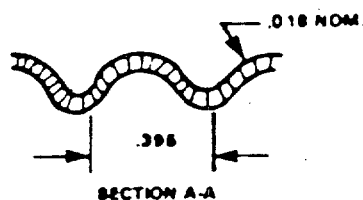
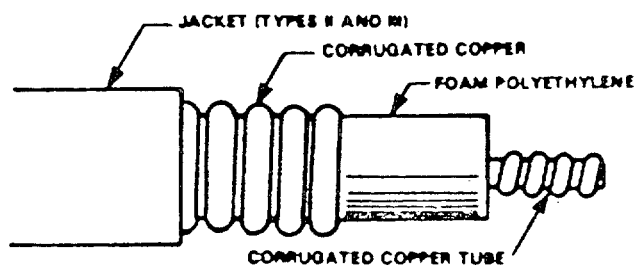
MIL-C-28830/4

IMPEDANCE:	50 OHMS
VSWR FREQUENCY RANGE:	100 MHz TO 4.2 GHz
DIELECTRIC WITHSTANDING VOLTAGE:	10000 VDC

## MIL-STD-242J(NAVY), PART 10

CABLES, RADIO FREQUENCY, COAXIAL, SEMIRIDGID, CORRUGATED OUTER CONDUCTOR,  
LOW LOSS FOAM DIELECTRIC, 1-5/8 INCH NOMINAL, 50 OHMS

MIL-C-28830/5



IMPEDANCE:	50 OHMS
VSWR FREQUENCY RANGE:	100 MHz TO 2.4 GHz
DIELECTRIC WITHSTANDING VOLTAGE:	15000 VDC

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL

MIL-C-915

SCOPE: THIS SECTION COVERS ELECTRICAL CABLE, AND CORD FOR SHIPBOARD APPLICATIONS. THE CLASSIFICATIONS ARE WATERTIGHT AND NON-WATERTIGHT CONSTRUCTION, FLEXING AND NON-FLEXING SERVICE FOR POWER, LIGHTING, CONTROL, COMMUNICATIONS, INSTRUMENTATION, AND ELECTRONIC APPLICATIONS.

## CABLE, ELECTRICAL, 300 VOLTS, TYPES DCOP AND TCOP

MIL-C-915/3

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED, SEE TABLE 1.  
 SECOND - POLYVINYL CHLORIDE INSULATION.  
 THIRD - THE SPECIFIED NUMBER OF CONDUCTORS SHALL BE CABLED TOGETHER. SEE TABLE 1.  
     A TIE CORD SHALL BE LAID STRAIGHT AS A CENTRAL CORE IN DCOP-1-1/2.  
 FOURTH - A POLYESTER BINDER TAPE.  
 FIFTH - STANDARD THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL				INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
					MIN	MAX			
DCOP-1	2	1 (10)	0.015	---	.235	.250	1000	100	10.6
DCOP-1/1-2	2	1-1/2 (16)			.300	.315	1500		6.66
DCOP-2	2				.310	.330			
TCOP-2	3				.325	.345			



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES SHOF, DHOF, THOF, AND FHOF

MIL-C-915/6

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED, SEE TABLE 1.  
 SECOND - SEPARATOR.  
 THIRD - SYNTHETIC RUBBER INSULATION, SEE TABLE 1. NOTE: A COLORED RUBBER FILLED COTTON TAPE MAY BE USED ON SIZE 23 AND LARGER.  
 FOURTH - REINFORCEMENT ON TYPE SHOF, SIZES 23 AND LARGER.  
 FIFTH - THE REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP ON MULTI-CONDUCTOR CABLES.  
 SEVENTH - JACKET OF POLYCHLOROPRENE OR STANDARD THERMOPLASTIC ON SIZES 42 AND SMALLER OF ALL TYPES, EXCEPT THOF-14. JACKET OF POLYCHLOROPRENE ON THOF-14 AND ON SIZES 60 AND LARGER OF ALL TYPES.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		INSULA- TION THICK- NESS NOMINAL	OVERALL DIAMETER		VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
		STANDARD		MIN	MAX			
SHOF-3	---	2-1/2 (65)	.031	.195	.210	2000* 2500**	300	4.18
SHOF-23	---	23 (228)	.040	.440	.460			.499
SHOF-60	---	60 (304)	.050	.570	.600		250	.187
SHOF-150	---	150 (760)	.070	.830	.870		200	.0747
SHOF-200	---	200 (988)		.940	.980			.0575
SHOF-250	---	250(1254)		1.035	1.085		150	.0453
SHOF-500	---	500 (259)	.090	1.380	1.450		100	.0225
SHOF-650	---	650 (427)	.100	1.540	1.610			.0174
SHOF-800	---	800(4033)		1.600	1.670			.0141
DHOF-3	---	2-1/2 (26)	.031	.405	.425	2000*	300	4.18
DHOF-4	---	4 (41)		.440	.460		250	2.62
DHOF-6	---	6 (65)		.490	.510		200	1.65
DHOF-9	---	9 (90)		.540	.570			1.24
DHOF-14	---	14 (140)	.040	.675	.705	2500**		.802

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES SHOF, DHOF, THOF, AND FHO

MIL-C-915/6

TABLE 1. CABLE DETAILS AND CHARACTERISTICS (CONT.)

TYPE AND SIZE	CONDUCTORS		INSULA- TION THICK- NESS NOMINAL	OVERALL DIAMETER		VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD		MIN	MAX		INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
DHOF-23	---	23 (228)	.040	.820	.860	2500**	150	.509
DHOF-30	---	30 (304)	.050	.920	.960			.339
DHOF-83	---	83 (418)	.070	1.390	1.450			.139
DHOF-250	---	250(1254)	.090	2.000	2.100		100	.0462
DHOF-400	---	400(2052)		2.400	2.500			.0283
THOF-3	---	2-1/2 (26)	.031	.430	.450	2000*	300	4.18
THOF-4	---	4 (41)		.460	.480		250	2.62
THOF-6	---	6 (65)		.520	.550		200	1.65
THOF-9	---	9 (90)		.570	.600			1.24
THOF-14	---	14 (140)	.040	.720	.750	2500**		.802
THOF-23	---	23 (228)	.040	.860	.900		150	.509
THOF-42	---	42 (209)	.070	1.200	1.250			.277
THOF-150	---	150 (760)	.090	1.740	1.820		125	.0762
THOF-250	---	250(1254)		2.140	2.240		100	.0462
THOF-400	---	400(2052)		2.680	2.800			.0283
THOF-500	---	500(5054)		2.920	3.100			.0230
THOF-600	---	600 (427)	.100	2.980	3.150			.0226
FHOF-3	---	2-1/2 (26)	.031	.460	.480	2000*	300	4.18
FHOF-4	---	4 (41)		.520	.550		250	2.62
FHOF-9	---	9 (90)		.630	.660		200	1.24
FHOF-42	---	42 (209)		1.300	1.380	2500**	150	.277
FHOF-60	---	60 (304)	.070	1.430	1.510			.191
FHOF-133	---	133 (684)		1.920	2.000		125	.0847

\* SIZES 3 TO 9 INCLUSIVE

\*\* SIZES 14 TO 800 INCLUSIVE

## MIL-STD-242 J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES DSS, TSS, FSS, AND 7SS

MIL-C-915/8

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, SEE TABLE 1.  
 SECOND - SYNTHETIC RUBBER INSULATION. SEE TABLE 1.  
 THIRD - THE REQUIRED NUMBER OF CONDUCTORS SHALL BE CABLED TOGETHER. SEE TABLE 1.  
 FOURTH - BELT OF SYNTHETIC RUBBER, NOMINAL THICKNESS 0.030 INCH OVER THE ASSEMBLED CONDUCTORS.  
 FIFTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.  
 SIXTH - JACKET OF EITHER POLYCHLOROPRENE OR CHLOROSULFONATED POLYETHYLENE. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO WATER	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
DSS-2	2	2 (7)	.020	.050	.370	3000	1000	500	500	6.79
DSS-3		3 (7)	.025	.080	.480					4.26
DSS-4		4 (7)		.065						4.78
TSS-2	3	2 (7)	.020	.050	.385					6.79
TSS-3		3 (7)	.025	.070	.480					4.26
TSS-4		4 (7)		.055						2.78
FSS-2	4	2 (7)	.020	.080						6.79
FSS-3		3 (7)	.025	.060						4.26
FSS-4		4 (7)		.085						2.78
7SS-2	7	2 (7)	.020		.600					6.79

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 600 VOLTS, TYPE MCOS

MIL-C-915/11

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED, SEE TABLE 1.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
     - SIZES 2, 4, AND 7 SHALL HAVE SPECIAL IDENTIFICATION CODE.  
     - SIZE 5 SHALL HAVE ONE SHIELDED PAIR AND 3 SINGLES  
     - SIZE 6 SHALL HAVE TWO SHIELDED PAIRS AND TWO SINGLES.  
 THIRD - BRAIDED SHIELD (FOR ALL PAIRS) AWG NO. 34 OR 36 UNCOATED COPPER.  
 FOURTH - REQUIRED NUMBER OF SINGLES AND SHIELDED PAIRS CABLED TOGETHER.  
     THE SIZE 7 SHALL HAVE A CENTER OF COTTON, GLASS OR ASBESTOS. SEE TABLE 1.  
 FIFTH - IN SIZES 5 AND 6 ONLY, A BINDER TAPE APPLIED HELICALLY WITH OVERLAP. IN  
     SIZES 2, 4 & 7 ONLY, FIRST, A BINDER; SECOND, A BRAIDED SHIELD OF AWG NO. 34  
     OR NO. 36 UNCOATED COPPER STRANDS; THIRD A SEPARATOR TAPE.  
 SIXTH - STANDARD THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		INSULA- TION THICK- NESS NOMINAL	OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS (VOLTS)		RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD				CONDR. TO CONDR.	SHIELD TO GROUND	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
				MIN	MAX				
MCOS-2	2	1-1/2 (16)	.023	.440	.460	2000	1500	200	7.15
MCOS-4	4			.490	.510				
MCOS-5	5	1 (26)	.013	.375	.390	1000	500	100	10.60
MCOS-6	6	1 (10)		.460	.480		1500		
MCOS-7	7	1-1/2 (16)	.023	.575	.595	2000		200	7.15

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 600 VOLTS, TYPE MHOF

MIL-C-915/14

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - POLYVINYL CHLORIDE INSULATION.  
 THIRD - SPECIFIED NUMBER OF CONDUCTORS CABLED TOGETHER IN ONE OR MORE LAYERS, ALL IN LEFT-HAND DIRECTION. SEE TABLE 1.  
 FOURTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 FIFTH - STANDARD THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
MHOF-7	7	2-1/2(19)	0.020	0.060	.500	2000	500	4.18
MHOF-10	10				.585			
MHOF-14	14				.635			
MHOF-19	19				.705			
MHOF-24	24				.795			
MHOF-30	30				.835			
MHOF-37	37				.925			
MHOF-44	44				1.000			
MHOF-61	61				1.175			

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE MMOP

MIL-C-915/15

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - POLYVINYL CHLORIDE INSULATION. NOMINAL WALL THICKNESS 0.020 INCH.  
 THIRD - FIVE CONDUCTORS CABLED TOGETHER.  
 FOURTH - A BINDER OF POLYESTER TAPE, COTTON BRAID, OR RAYON BRAID.  
 FIFTH - STANDARD THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		INSULA- TION CONDUCTOR MIN DIA	OVERALL DIAMETER		VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
				MIN	MAX			
MMOP-5	5	1/2 (21)	0.065	---	0.305	1000	100	23.3

## MIL-STD-242 J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE PBTMU

MIL-C-915/17

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - ONE COPPER AND ONE CONSTANTAN CONDUCTOR FOR EACH PAIR, UNCOATED.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - EACH PAIR SHALL BE ONE COPPER AND ONE CONSTANTAN CONDUCTOR CABLED.  
 FOURTH - SPECIFIED NUMBER OF PAIRS SHALL BE CABLED. SEE TABLE 1.  
 FIFTH - BINDER TAPE.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
PBTMU-5	5	3/5 (7)	0.015	---	.540	1000	100	---
PBTMU-15	15			---	.750			---
PBTMU-30	30			---	.980			---

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE TSP

MIL-C-915/22

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. SEE TABLE 1.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - TWO CONDUCTORS CABLED TOGETHER.  
 FOURTH - SPECIFIED NUMBER OF PAIRS SHALL BE CABLED. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS VOLTS		RESISTANCE PER 1000 FT.	
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR. TO CONDR.	CONDR. TO GRD.	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
TSP-11	11	3/5 (7)	0.015	0.080	0.735	2000	1000	100	18.73
TSP-31	31				1.062				



## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE TTOP

MTL-C-915/24

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - POLYVINYL CHLORIDE INSULATION.  
 THIRD - TWO CONDUCTORS SHALL BE CABLED TOGETHER TO FORM PAIRS.  
 FOURTH - SPECIFIED NUMBER OF PAIRS SHALL BE CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - STANDARD THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS INSULA- TION NOMINAL	JACKET CABLE NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO. OF PAIRS	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
TTOP-3	3	1 (10)	0.020	0.060	.480	2000	100	10.60
TTOP-5	5				.590			
TTOP-10	10				.700			
TTOP-15	15				.830			

## MIL-STD-242 J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE TTRS

MIL-C-915/25

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OR 4 OF L-P-390.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, GRADE E OR TYPE IV OF ASTM D 4066.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR.  
 FIFTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 COPPER, UNCOATED OR TIN COATED.  
 SIXTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS A JACKET OF CLEAR POLYAMIDE.  
 SEVENTH - REQUIRED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 EIGHTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 NINTH - STANDARD THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	WITHSTAND VOLTAGE MIN RMS VOLTS			RESISTANCE PER 1000 FT. CONDUCTOR (OHMS)
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR TO CONDR	CONDR TO SHIELD	SHIELD TO SHIELD	
TTRS-2	2	1 (7)	0.017	0.003	.680	2000	1000	200	10.5
TTRS-4	4				.740				
TTRS-6	6				.880				
TTRS-8	8				.990				
TTRS-10	10				1.080				
TTRS-12	12				1.100				
TTRS-16	16				1.190				

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, TYPE SSGU

MIL-C-915/28

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SILICONE RUBBER - GLASS TAPE INSULATION. SEE TABLE 1.  
 THIRD - BINDER (OPTIONAL)  
 FOURTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA INSULA- TION NOMINAL	THICKNESS JACKET NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
SSGU-50	--	50 (90)	.334	.050	.520	5000	200	.2025
SSGU-75	--	75 (37)	.407		.602		175	.1290
SSGU-100	--	100 (61)	.453		.669		160	.1020
SSGU-200	--	200 (61)	.634	.060	.872		125	.0504
SSGU-300	--	300 (91)	.748		1.001		110	.0360
SSGU-400	--	400(127)	.862		1.118		100	.0273

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, TYPE DSGU

MIL-C-915/29

## CONSTRUCTION

## (WATERTIGHT)

## SIZES 3 TO 23 INCLUSIVE, EXTRUDED SILICONE RUBBER INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS Braid.  
 FOURTH - BRAID COVERING.  
 FIFTH - TWO CONDUCTORS SHALL BE CABLED TOGETHER.  
 SIXTH - BINDER OR COMBINATION BINDER/BARRIER.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

## SIZES 23 TO 400 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SILICONE RUBBER-GLASS TAPE INSULATION. SEE TABLE 1.  
 THIRD - TWO CONDUCTORS SHALL BE CABLED TOGETHER.  
 FOURTH - BINDER.  
 FIFTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION NOMINAL	THICKNESS JACKET NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
DSGU-3	2	3 (7)	---	.030	.391	3000	500	4.10
DSGU-4		4 (7)	---		.427			2.68
DSGU-9		9 (7)	---	.040	.544			1.060
DSGU-14		14 (7)	---		.670			.8407
DSGU-23		23 (7)	.274	.050	.781	5000		.5284
DSGU-50		50 (19)	.334		.911	200	.2050	
DSGU-75		75 (37)	.407		1.074	175	.1290	
DSGU-100		100 (61)	.453		1.167	160	.1020	
DSGU-200		200 (61)	.634	.060	1.583	125	.0509	
DSGU-300		300 (91)	.748	.075	1.841	110	.0360	
DSGU-400		400(127)	.862		2.069	100	.0273	

## MIL-STD-242 J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, TYPE TSGU

MIL-C-915/30

## CONSTRUCTION

## (WATERTIGHT)

## SIZES 3 TO 23 INCLUSIVE, EXTRUDED SILICONE RUBBER INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS Braid.  
 FOURTH - BRAID COVERING.  
 FIFTH - THREE CONDUCTORS SHALL BE CABLED TOGETHER.  
 SIXTH - BINDER OR COMBINATION BINDER/BARRIER.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

## SIZES 23 TO 400 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SILICONE RUBBER-GLASS TAPE INSULATION. SEE TABLE 1.  
 THIRD - THREE CONDUCTORS SHALL BE CABLED TOGETHER.  
 FOURTH - BINDER.  
 FIFTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION NOMINAL	THICKNESS JACKET NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.		
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDU- CTOR (OHMS)	
TSGU-3	3	3 (7)	---	.030	.411	3000	500	4.10	
TSGU-4		4 (7)	---		.449			2.68	
TSGU-9		9 (7)	---	.040	.575			1.06	
TSGU-14		14 (7)	---		.718	5000		.8407	
TSGU-23		23 (7)	.251	.050	.812			.5284	
TSGU-50		50 (19)	.334		.969	200	.205		
TSGU-75		75 (37)	.407		1.134		.129		
TSGU-100		100 (61)	.453	.060	1.266		.102		
TSGU-150		150 (61)	.557		1.515		.0642		
TSGU-200		200 (61)	.634		1.669		.0509		
TSGU-300		300 (91)	.748	.075	1.957		.0360		
TSGU-400		400(127)	.862		2.203		.0273		

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, TYPE FSGU

MIL-C-915/31

## CONSTRUCTION

## (WATERTIGHT)

## SIZES 3 TO 23 INCLUSIVE, EXTRUDED SILICONE RUBBER INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS BRIAID.  
 FOURTH - BRAID COVERING.  
 FIFTH - FOUR CONDUCTORS SHALL BE CABLED TOGETHER.  
 SIXTH - BINDER OR COMBINATION BINDER/BARRIER.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

## SIZES 23 TO 200 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SILICONE RUBBER-GLASS TAPE INSULATION. SEE TABLE 1.  
 THIRD - FOUR CONDUCTORS SHALL BE CABLED TOGETHER.  
 FOURTH - BINDER.  
 FIFTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION NOMINAL	THICKNESS JACKET NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
FSGU-3	4	3 (7)	---	.030	.447	3000	500	4.18
FSGU-4		4 (7)	---	.040	.513			2.68
FSGU-9		9 (7)	---		.630			1.06
FSGU-23		23 (7)	.251	.050	.890	5000	200	.5284
FSGU-50		50 (19)	.334		1.050			.203
FSGU-75		75 (37)	.407		1.240			.129
FSGU-100		100 (61)	.453	.060	1.358			.102
FSGU-150		150 (61)	.557		1.625			.0642
FSGU-200		200 (61)	.634		1.820		125	.0509

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, TYPE MSCU

MIL-C-915/32

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
     - DIA OVER INSULATION 0.084 INCH MIN.  
 THIRD - GLASS BRAID.  
 FOURTH - BRAID COVERING.  
 FIFTH - REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER.  
 SIXTH - BINDER OR COMBINATION BINDER/BARRIER.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
MSCU-7	7	2 (7)	.018	.040	.484	3000	500	6.44
MSCU-10	10			.050	.622			
MSCU-14	14				.668			
MSCU-19	19				.738			
MSCU-24	24				.855			
MSCU-30	30				.901			
MSCU-37	37			.060	1.002			
MSCU-44	44				1.114			
MSCU-61	61				1.250			
MSCU-91	91				1.480			

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, TYPE 7SGU

MIL-C-915/34

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS BRAID.  
 FOURTH - BRAID COVERING.  
 FIFTH - SEVEN CONDUCTORS CABLED TOGETHER.  
 SIXTH - BINDER OR COMBINATION BINDER/BARRIER.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA INSULA- TION NOMINAL	THICKNESS JACKET NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
7SGU-3	7	3 (7)	.096	.040	.545	3000	500	4.18
7SGU-4		4 (7)	.112		.595			2.68



## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPES TCJU AND TCTU

MIL-C-915/35

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - ONE IRON AND ONE CONSTANTAN CONDUCTOR IN TYPE TCJU, FOR TYPE J THERMOCOUPLE IN ACCORDANCE WITH ANSI MC96.1; ONE COPPER AND ONE CONSTANTAN IN TYPE TCTU, FOR TYPE T THERMOCOUPLE IN ACCORDANCE WITH ANSI MC96.1. ALL CONDUCTORS UNCOATED. SEE TABLE 1.
- SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.
- THIRD - GLASS Braid.
- FOURTH - BRAID COVERING.
- FIFTH - TWO CONDUCTORS SHALL BE CABLED TOGETHER.
- SIXTH - BINDER OR COMBINATION BINDER/BARRIER.
- SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION MIN	THICKNESS JACKET NOMINAL	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
TCJU-4	2	4 (7)	0.105	0.050	0.430	3000	500	---
TCTU-4		4 (7)	0.105	0.050	0.430	3000	500	---

## MIL-STD-242 J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPES TTSU

MIL-C-915/37

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066  
 - DIA OVER INSULATED AND JACKETED CONDUCTOR 0.076 INCH MIN.  
 FOURTH - TWO CONDUCTORS TWISTED TOGETHER TO FORM A PAIR. FOR TTSU-1-1/2 ONLY,  
 THREE CONDUCTORS TWISTED TOGETHER TO FORM A TRIAD.  
 FIFTH - SPECIFIED NUMBER OF PAIRS SHALL BE CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER OR COMBINATION BINDER/BARRIER.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT.	
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION MIN	JACKET NOMINAL		CONDR. TO CONDR.	CONDR. TO GRD.	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
TTSU-1-1/2	1-1/2	3/5 (7)	.017	.050	.330	2000	1000	100	16.94
TTSU-3	3				.450				
TTSU-5	5				.540				
TTSU-10	10			.062	.675				
TTSU-15	15				.800				
TTSU-20	20				.870				
TTSU-30	30			.075	1.080				
TTSU-40	40				1.200				
TTSU-50	50				1.400				
TTSU-60	60				1.450				

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPES TCJX, TCKX, AND TCTX

MIL-C-915/38

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - STRANDED CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS Braid.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR. FOR TCJX, ONE IRON AND ONE CONSTANTAN CONDUCTOR. FOR TCKX, ONE CHROMEL AND ONE ALUMEL CONDUCTOR. FOR TCTX, ONE COPPER AND ONE CONSTANTAN CONDUCTOR.  
 FIFTH - SPECIFIED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SEVENTH - SILICONE RUBBER JACKET. SEE TABLE 1.  
 EIGHTH - BRAIDED METAL ARMOR.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	NO. OF PAIRS	NO. OF STRANDS AND DIA. OF STRANDS	DIA OVER INSULATION MIN	THICKNESS JACKET MIN	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
							INSULATION (MEGOHM)	CONDUCTOR (OHMS)
TCJX-3 TCJX-7 TCJX-12	3 7 12	7/0.0201	.100	.040 .050	.742 .983 1.269	2000	500	---
TCKX-1 TCKX-3 TCKX-7 TCKX-12	1 3 7 12	7/0.0201	.100	.030 .040 .050	.456 .742 .983 1.269			
TCTX-1 TCTX-3 TCTX-7 TCTX-12	1 3 7 12	7/0.0113	.065	.030 .040 .050	.350 .552 .731 .964			

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE PI

MIL-C-915/39

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, NICKEL COATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS BRAID.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR.  
 FIFTH - A BRAIDED SHIELD OF AWG NO. 34 OR 36 UNCOATED COPPER OVER EACH PAIR.  
 SIXTH - SHIELD INSULATION OVER EACH BRAIDED SHIELD, CONSISTING OF POLYETHYLENE TEREPHTHALATE FILM, TYPE G OF MIL-I-631, 0.001 IN THICK.  
 SEVENTH - GLASS BRAID OVER EACH INSULATION.  
 EIGHTH - SPECIFIED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 TENTH - SILICONE RUBBER JACKET. SEE TABLE 1.  
 ELEVENTH - BRAIDED METAL ARMOR.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1,000 FT.	
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET MIN		CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
PI-3	3	2 (7)	.018	.040	.685	1200	700	500	500	6.79
PI-7	7			.050	.900					
PI-12	12				1.155					

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 600 VOLTS, TYPES DPS, FPS, TPS, AND 7PS

MIL-C-915/40

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, NICKEL COATED. SEE TABLE 1.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION. SEE TABLE 1.  
 THIRD - GLASS Braid.  
 FOURTH - SPECIFIED NUMBER OF CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SILICONE RUBBER JACKET. SEE TABLE 1.  
 SEVENTH - BRAIDED METAL ARMOR.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION MIN	THICKNESS JACKET MIN	OVERALL DIA. MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO.	SIZE NAVY STANDARD					INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
DPS-3	2	3 (7)	.100	.030	.455	3000	500	4.44
DPS-4		4 (7)	.116		.489			2.78
DPS-6		6 (7)	.143	.040	.585			1.75
DPS-9		9 (7)	.158		.628			1.102
DPS-14		14 (7)	.200	.050	.730			0.8742
TPS-3	3	3 (7)	.100	.030	.475			4.44
TPS-4		4 (7)	.116	.040	.553			2.78
TPS-6		6 (7)	.143		.620			1.75
TPS-9		9 (7)	.166		.657			1.102
TPS-14		14 (7)	.200	.050	.751			0.8742
TPS-23		23 (7)	.257		.866			0.5495
TPS-30		30 (7)	.310	.060	.989			0.346
FPS-14	4	14 (7)	.200	.050	.815			0.8742
7PS-6	7	6 (7)	.143	.050	.775			1.75

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 600 VOLTS, TYPE 2AU

MIL-C-915/41

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
SEE TABLE 1.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, GRADE E OR TYPE IV OF ASTM D 4066.
- FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR.
- FIFTH - FORTY PAIRS CABLED TOGETHER.
- SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- SEVENTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.
- EIGHTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- NINTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	WITHSTAND VOLTAGE MIN RMS VOLTS		RESISTANCE PER 1,000 FT.	
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR TO SHIELD	SHIELD TO WATER	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
2AU-40	40	22-7	0.020	0.060	1.370	2500	1000	5000	17.71

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1S50MU

MIL-C-915/42

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH. SEE TABLE 1.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, GRADE E OR TYPE IV OF ASTM D 4066.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36 TIN COATED COPPER.
- FIFTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE.
- SIXTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS CONDR. TO SHIELD	RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL				
					MIN	MAX		
1S50MU-16	16	22-7	0.027	0.050	0.760	0.825	5000	17.54
1S50MU-20	20				0.835	0.885		
1S50MU-40	40				1.095	1.185		
1S50MU-70	70				1.465	1.555		

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE MU AND MUS

MIL-C-915/43

## CONSTRUCTION

FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 20-7. MAX DIA 0.039 INCH.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE. IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR MU

SIXTH - SPECIAL THERMOPLASTIC JACKET.

## CONSTRUCTION VARIANT FOR MUS

SIXTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.  
 SEVENTH - SPIRALLY WRAPPED 0.002 INCH THICK POLYETHELENE TEREPHTHALATE (MYLAR) SEPARATOR TAPE.  
 EIGHTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.  
 NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 TENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIA. MAX	VOLTAGE WITHSTAND MIN RMS CONDR. TO SHIELD	RESISTANCE PER 1,000 FT.	
	NO.	SIZE ASTM B 286	INSULA- TION MIN	JACKET MIN			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
MU-14 MUS-14	14	20-7	0.008	0.030	0.400 0.460	2000	100 1.0	10.93



## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1SWU

MIL-C-915/44

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OF L-P-390.  
 THIRD - BRAIDED SHIELD OF AWG NO. 36 UNCOATED COPPER.  
 FOURTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.  
 FIFTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET  MIN			CONDR.  TO SHIELD	SHIELD  TO SHIELD	
					MIN	MAX			
1SWU-2	2	22-7	.045	.030	.430	.455	3000	500	16.9
1SWU-14	14			.040	.825	.870			
1SWU-20	20				.970	1.030			
1SWU-30	30			.050	1.135	1.200			

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 2SU

MIL-C-915/45

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE OVER EACH PAIR AT MFG. OPTION.  
 SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER STRANDS.  
 SEVENTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, TYPE III OR IV, GRADE E OF MIL-M-20693.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.  
 EIGHTH - REQUIRED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 TENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	
					MIN	MAX				
2SU-3	3	22-7	.010	.040	.480	.520	2000	1000	500	17.37
2SU-7	7				.610	.660				
2SU-10	10				.770	.830				
2SU-14	14			.050	.860	.930				
2SU-19	19				.970	1.040				
2SU-24	24				1.120	1.210				
2SU-30	30				1.190	1.280				
2SU-37	37				1.290	1.380				
2SU-44	44				1.460	1.550				
2SU-61	61			.060	1.660	1.740				

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 2SWAU

MIL-C-915/46

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
SEE TABLE I.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.
- FOURTH - TWO CONDUCTORS CABLED TOGETHER.
- FIFTH - BINDER TAPE OVER EACH PAIR AT MFG. OPTION, APPLIED HELICALLY WITH OVERLAP.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER.
- SEVENTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE.
- ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.
- EIGHTH - REQUIRED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- TENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET  MIN			CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	
					MIN	MAX				
2SWAU-3	3	22-7	.010	.040	.480	.520	2000	1000	500	17.37
2SWAU-7	7				.610	.660				
2SWAU-10	10				.770	.830				
2SWAU-14	14			.050	.860	.930				
2SWAU-19	19				.970	1.040				
2SWAU-24	24				1.120	1.210				
2SWAU-30	30				1.190	1.280				
2SWAU-37	37				1.290	1.380				
2SWAU-44	44				1.460	1.550				
2SWAU-61	61			.060	1.660	1.740				

## MIL-STD-242J (NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1SWF

MIL-C-915/47

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
SEE TABLE I.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OF L-P-390. SEE TABLE 1.
- THIRD - BRAIDED SHIELD OF AWG NO. 36 UNCOATED COPPER.
- FOURTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
- ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.
- FIFTH - TWO CONDUCTORS CABLED TOGETHER.
- SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- SEVENTH - ARCTIC TAPE POLYCHLOROPRENE JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MJN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR
	NO.	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET MAX			COND.R. TO SHIELD	SHIELD TO SHIELD	(OHMS)
1SWF-2	2	22-7	0.045	0.100	0.600	0.625	3000	500	17.03

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 2SWF

MIL-C-915/48

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE OVER EACH PAIR AT MFG. OPTION, APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER.  
 SEVENTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.  
 EIGHTH - REQUIRED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 NINTH - SYNTHETIC RUBBER COMPOUND FILLED BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 TENTH - ARCTIC TYPE POLYCHLOROPRENE JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1,000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET  MIN			CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	
2SWF-3	3	22-7	0.010	0.100	0.600	0.625	2000	1000	500	17.71
2SWF-4	4			0.090						
2SWF-7	7			0.110	0.780	0.815				
2SWF-24	24			0.125	1.190	1.250				

## MIL-STD-242J (NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 2SWU

MIL-C-915/49

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. AWG NO. 18 (7 X 0.0152 INCH) MAX DIA 0.050 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE OVER EACH PAIR AT MFG. OPTION, APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER.  
 SEVENTH - \* SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
     - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.  
     - DIA OVER COMPLETED PAIR 0.213 INCH NOMINAL.  
 EIGHTH - \* REQUIRED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 NINTH - \* BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 TENTH - SPECIAL THERMOPLASTIC JACKET.

\* FOR 2SWU-1, OMIT SEVENTH, EIGHTH, AND NINTH.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS				RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE AWG NO.	INSULA- TION NOMINAL	JACKET  MIN			CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	SHIELD TO WATER	
					MIN	MAX					
2SWU-1	1	18	0.020	0.012	0.240	0.255	2000	1000	500	500	7.05
2SWU-3	3			0.060	0.670	0.710					
2SWU-7	7				0.860	0.910					
2SWU-12	12			0.070	1.130	1.200					
2SWU-19	19			0.080	1.292	1.380					
2SWU-24	24				1.500	1.590					
2SWU-30	30				1.670	1.760					
2SWU-37	37			0.100	1.785	1.870					
2SWU-61	61				2.205	2.300					

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE MS

MIL-C-915/50

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. AWG NO. 16 (7 X 0.0192) OR ASTM B 286  
 SIZE 16 - 19 MAX DIA 0.063 INCH.
- SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, IN ACCORDANCE WITH ASTM D 4066.
- FOURTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.
- FIFTH - BINDER TAPE, POLYESTER, TYPE G OF MIL-I-631, APPLIED HELICALLY WITH OVERLAP.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER.
- SEVENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS				VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT.	
	NO.	SIZE	INSULA- TION MIN	JACKET MIN			CONDR. TO CONDR.	CONDR. TO SHIELD	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
					OVERALL DIAMETER					
					MIN	MAX				
MS-37	37	AWG NO. 16 ASTM B 286 16 - 19	0.008	0.060	0.740	0.800	2000	1000	500	4.49

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 3SU

MIL-C-915/51

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. AWG NO. 18 (7 X 0.0152 INCH). MAX DIA 0.050 INCH.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.
- FOURTH - THREE CONDUCTORS CABLED TOGETHER. SEE TABLE 1.
- FIFTH - BINDER TAPE OVER EACH TRIAD, AT MFG. OPTION APPLIED HELICALLY WITH OVERLAP.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 UNCOATED COPPER.
- SEVENTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.
- ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631,
- SEALED, DIA OVER COMPLETED TRIAD 0.240 INCH NOM.
- EIGHTH - REQUIRED NUMBER OF TRIADS CABLED TOGETHER. SEE TABLE 1.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- TENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF TRIADS	SIZE AWG NO.	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO CONDR.	CONDR. TO SHIELD	
					MIN	MAX			
3SU-3	3	18	0.020	0.040	0.650	0.700	2000	1000	7.06
3SU-7	7			0.050	0.840	0.910			
3SU-10	10				1.100	1.190			
3SU-14	14				1.200	1.290			
3SU-19	19				1.340	1.430			
3SU-24	24			0.060	1.580	1.670			
3SU-30	30				1.680	1.770			
3SU-37	37				1.840	1.930			
3SU-44	44				2.060	2.150			



## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 3SWU

MIL-C-915/52

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. AWG NO. 18 (7 X 0.0152 INCH). MAX DIA 0.050 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, GRADE E OR TYPE IV OF ASTM D 4066 NOM DIA 0.092 INCH.  
 FOURTH - THREE CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE OVER EACH TRIAD, AT MFG. OPTION APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 UNCOATED COPPER.  
 SEVENTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631,  
 - SEALED. DIA OVER COMPLETED TRIAD 0.240 INCH NOM.  
 EIGHTH - REQUIRED NUMBER OF TRIADS CABLED TOGETHER. SEE TABLE 1.  
 NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 TENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT.	
	NO. OF TRIADS	SIZE AWG NO.	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO CONDR.	CONDR. TO SHIELD	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
					MIN	MAX				
3SWU-3	3	18	0.020	0.040	0.615	0.655	2000	1000	1.0	6.64
3SWU-7	7				0.880	0.940				
3SWU-10	10			0.050	1.100	1.180				
3SWU-14	14				1.200	1.280				
3SWU-19	19				1.370	1.450				
3SWU-24	24				1.640	1.740				
3SWU-30	30				1.760	1.860				
3SWU-37	37			0.060	1.890	1.990				
3SWU-44	44				2.140	2.240				

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 3U

MIL-C-915/53

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. AWG NO. 18 (7 X 0.0152 INCH). MAX DIA 0.050 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
     - DIA OVER JACKET 0.092 INCH NOM.  
 FOURTH - THREE CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - MARKER BRAID ON EACH TRIAD. DIA OVER BRAIDED TRIAD 0.215 INCH NOM.  
 SIXTH - SPECIFIED NUMBER OF TRIADS CABLED TOGETHER. SEE TABLE 1.  
 SEVENTH - BINDER TAPE, POLYESTER, TYPE G OF MIL-I-631, APPLIED HELICALLY WITH OVERLAP.  
 EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1,000 FT.	
	NO. OF TRIADS	SIZE AWG NO.	INSULA- TION NOMINAL	JACKET MIN				INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
					MIN	MAX			
3U-3	3	18	0.020	0.040	0.580	0.620	2000	---	6.64
3U-7	7				0.760	0.810			
3U-12	12			0.050	1.030	1.090			

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 600 VOLTS, TYPE ECM

MIL-C-915/54

## CONSTRUCTION

## (WATERTIGHT)

## TWISTED PAIRS (8 PAIRS)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 20-7. MAX DIA 0.039 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE OVER EACH PAIR AT MFG. OPTION, APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER.  
 SEVENTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.

## GROUPS OF 7 ( 8 GROUPS)

- FIRST - COPPER CONDUCTOR, TIN COATED. AWG NO. 18 (7 X 0.0152 INCH). MAX DIA 0.050 INCH.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - SEVEN CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FOURTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.

## ASSEMBLY

- FIRST - FIVE PAIRS CABLED TO FORM A CORE. THREE PAIRS AND EIGHT GROUPS OF SEVEN CABLED OVER THE CORE.  
 SECOND - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 THIRD - SPECIAL THERMOPLASTIC JACKET. NOM THICKNESS 0.010 INCH.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1000 FT.	
	NO.	SIZE	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
ASTM B 286 AWG NO.	2	20-7	0.017	0.003	1.370	2000	1000	500	500	11.03
	7	18	0.008							

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1S75MU

MIL-C-915/55

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OF L-P-390.  
 THIRD - BRAIDED SHIELD OF AWG NO. 34, TIN COATED COPPER.  
 FOURTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, TYPE III OR IV, GRADE E OF MIL-M-20693.  
     - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED. DIA OVER COMPLETED CONDUCTOR 0.228 IN MAX.  
 FIFTH - EIGHT SINGLES CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SEVENTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO SHIELD	SHIELD TO SHIELD	
1S75MU-8	8	22-7	0.070	0.050	0.950	1.030	7000	500	17.37

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1SMU

MIL-C-915/56

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OF L-P-390.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, GRADE E OR TYPE IV OF MIL-M-20693.  
 FOURTH - BRAIDED SHIELD OF AWG NO. 36 TIN COATED COPPER.  
 FIFTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631,  
 - SEALED. DIA OVER COMPLETED CONDUCTORS 0.131 INCH NOM.  
 SIXTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.  
 SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO SHIELD	SHIELD TO SHIELD	
					MIN	MAX			
1SMU-5	5	22-7	0.027	0.050	0.465	0.500	5000	500	17.37

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1SU

MIL-C-915/59

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 20-7. MAX DIA 0.039 INCH. AND AWG NO. 18 (7 X 0.0152 INCH) MAX DIA 0.050 INCH. FOR 1SU-36, 32 SIZE 20-7 AND 4 AWG NO. 18 CONDUCTORS. FOR 1SU-60, 60 SIZE 20-7 CONDUCTORS.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OF L-P-390.  
- MIN THICKNESS 0.014 INCH. SEE TABLE 1.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36 UNCOATED COPPER.
- FIFTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
- ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED. DIA OVER COMPLETED CONDUCTORS NOM INCH 0.127 (FOR AWG NO. 18) AND 0.115 FOR (20-7). DIA OVER COMPLETED CONDUCTORS 0.131 INCH NOM.
- SIXTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION NOMINAL	THICK- NESS JACKET  MJN	OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE					CONDR.	SHIELD	
					TO SHIELD	TO SHIELD			
1SU-36	36	ASTMB 286 20-7 AWG NO.18	0.115 0.127	0.060	0.910	0.985	2200	500	10.93 7.05
1SU-60	60	ASTMB 286 20-7	0.115	0.080	1.210	1.310			10.93

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES 2SJ, 3SJ, AND 4SJ

MIL-C-915/60

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED, ASTM B 286, SIZES 14 AND SMALLER. UNCOATED FOR NAVY SIZES 6 AND LARGER.
- SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.
- THIRD - TWO, THREE, OR FOUR CONDUCTORS CABLED TOGETHER. SEE TABLE 1.
- FOURTH - BRAIDED SHIELD OF AWG NO. 30 OR SMALLER TIN COATED COPPER.
- FIFTH - BINDER TAPE OF POLYESTER, TYPE G OF MIL-I-631, APPLIED HELICALLY WITH OVERLAP.
- SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS			DIA OVER INSULA- TION NOMINAL	OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1000 FT.	
	NO.	SIZE					CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO WATER	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
		ASTM B 286	NAVY STD.		MIN	MAX					
2SJ-22	2	22-19	6 (7)	.067	.187	.203	1200	600	600	500	16.54
2SJ-20		20-19		.073	.204	.220					10.16
2SJ-18		18-19		.084	.227	.246					6.47
2SJ-16		16-19		.091	.245	.265					5.02
2SJ-14		14-19		.105	.279	.302					3.17
2SJ-12				.145	.380	.400					1.68
2SJ-11				.160	.420	.445					1.060
2SJ-9				.200	.505	.530					.8407
2SJ-7				.235	.580	.605					.5284
3SJ-9	3		14(7)	.200	.580	.600					.8407
3SJ-22		22-19	.067	.201	.217	16.54					
3SJ-20		20-19	.073	.216	.234	10.16					
3SJ-18		18-19	.084	.244	.264	6.47					
3SJ-16		16-19	.091	.265	.285	5.02					
3SJ-14		14-19	.105	.301	.325	3.17					
3SJ-12			.145	.415	.440	1.68					
4SJ-20	4	20-19		.073	.260	.280					10.16
4SJ-16		16-19		.091	.305	.325					5.02
4SJ-14		14-19		.105	.350	.370					3.17

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE 2U

MIL-C-915/63

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 26-7. MAX DIA 0.020 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.  
 - DIA OVER INSULATION 0.045 INCH.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066,  
 NOMINAL THICKNESS .003 INCH.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - SPECIFIED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER TAPE OF POLYESTER TYPE G OF MIL-I-631, APPLIED HELICALLY WITH  
 OVERLAP.  
 SEVENTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.  
 EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO CONDR.	SHIELD TO CONDR.	
					MIN	MAX			
2U-10	10	26-7	0.012	0.050	.450	.480	2000	1000	45.19
2U-15	15				.530	.560			
2U-19	19				.550	.580			
2U-30	30				.670	.700			
2U-45	45				.830	.870			
2U-60	60			0.065	.920	.960			



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPE 2WAU

MIL-C-915/64

## CONSTRUCTION

(WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286 SIZE 22-7. MAX DIA 0.033 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR. SEE TABLE 1.  
 FIFTH - FORTY PAIRS CABLED TOGETHER. SEE TABLE 1.  
 SIXTH - BINDER TAPE APPLIED, AT MFG. OPTION, HELICALLY WITH OVERLAP.  
 SEVENTH - BRAIDED SHIELD OF AWG NO. 34, TIN COATED COPPER.  
 EIGHTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 NINTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT.	
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR. TO SHIELD	SHIELD TO WATER	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
2WAU-40	40	22-7	0.020	0.060	1.370	2500	1000	5000	17.71

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 600 VOLTS, TYPE MWF

MIL-C-915/58

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. AWG NO. 18 (7 X 0.0152 INCH) MAX DIA 0.050 INCH.  
 SECOND - SYNTHETIC RUBBER OR POLYETHYLENE INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - ARCTIC TYPE NEOPRENE JACKET. SEE TABLE 1.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOL TS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE AWG NO.	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO CONDR.	CONDR. TO WATER	
					MIN	MAX			
MWF-7	7	18	0.020	0.060	0.480	0.500	2000	1000	7.05
MWF-10	10			0.065	0.605	0.635			
MWF-14	14			0.085	0.710	0.745			
MWF-19	19				0.800	0.836			
MWF-24	24			0.110	0.905	0.945			
MWF-30	30				1.005	1.045			
MWF-37	37								

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1SAU

MIL-C-915/57

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. ASTM B 286 SIZE 20-7. MAX DIA 0.039 INCH.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 3 OF L-P-390. SEE TABLE 1.  
 - MIN. THICKNESS 0.012 INCH.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - BRAIDED SHIELD OF AWG NO. 36 UNCOATED COPPER.  
 FIFTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, TYPE III OR IV, GRADE E OF MIL-M-20693.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED. DIA OVER COMPLETED CONDUCTORS 0.110 INCH NOM.  
 SIXTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.  
 SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		DIA OVER INSULA- TION MIN	THICKNESS JACKET NOMINAL	OVERALL DIAMETER		VOLTAGE WITHSTAND		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO.	SIZE ASTM B 286					MIN	RMS VOLTS	
					MIN	MAX	CONDR. TO SHIELD	SHIELD TO SHIELD	
1SAU-44	44	20-7	0.060	0.050	0.910	0.990	2000	500	10.71

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 1SMWU

MIL-C-915/65

## CONSTRUCTION

(WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286, SIZE 22-7. MAX DIA 0.033 INCH.
- SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390. SEE TABLE 1.
- THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36 TIN COATED COPPER.
- FIFTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.
  - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.
- SIXTH - REQUIRED NUMBER OF SINGLES CABLED TOGETHER. SEE TABLE 1.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET NOMINAL			CONDR. TO SHIELD	SHIELD TO SHIELD	
					MIN	MAX			
1SMWU-70	70	22-7	0.027	0.050	1.465	1.555	5000	500	17.71

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 59-CONDUCTOR, TYPE MSPW

MIL-C-915/66

## CONSTRUCTION (WATERTIGHT)

## CONDUCTOR SIZE 22-7 (16 REQUIRED)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286, SIZE 22-7.  
 SECOND - FLUOROCARBON RESIN INSULATION. SEE TABLE 1.  
 THIRD - BRAIDED SHIELD OF AWG NO. 34 OR 36 COPPER.  
 FOURTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.

## CONDUCTOR SIZE 20-7 (18 REQUIRED)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286, SIZE 20-7.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 COPPER, TIN COATED.  
 FIFTH - SEE FOURTH ABOVE.  
 SIXTH - CONDUCTORS NUMBERED 12, 13, & 14, FORMED INTO TRIAD.  
 SEVENTH - CONDUCTORS NUMBERED 19 THRU 24 FORMED THREE INTO PAIRS.

## CONDUCTOR SIZE 3 (7) (25 REQUIRED)

- FIRST - COPPER CONDUCTOR, TIN COATED. NAVY STANDARD SIZE 3 (7).  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - SIXTEEN CONDUCTORS FORMED INTO EIGHT PAIRS. SEE TABLE 1.  
 FIFTH - NINE CONDUCTORS FORMED INTO THREE TRIADS.  
 SIXTH - OVER EACH PAIR AND EACH TRIAD, BRAIDED SHIELD OF AWG NO. 34 OR 36 CU, TIN COATED.  
 SEVENTH - SEE FOURTH IN SIZE 22-7 ABOVE.

## ASSEMBLY

- FIRST - SOLID POLYCHLOROPRENE FILLER AS CENTER CORE.  
 SECOND - INNER LAYER:  
   (1) SHIELDED TRIADS, NUMBERED 1, 2, & 3.  
   (2) TRIAD, NUMBERED 12, 13, & 14.  
   (3) CONDUCTORS, NUMBERED 15, 16, 17, & 18.  
 THIRD - BINDER TAPE.  
 FOURTH - MIDDLE LAYER:  
   (1) EIGHT SHIELDED PAIRS, NUMBERED 4 THRU 11.  
   (2) THREE PAIRS, NUMBERED 19 & 20, 21 & 22, 23 & 24.  
 FIFTH - BINDER TAPE.  
 SIXTH - OUTER LAYER:  
   (1) CONDUCTORS, NUMBERED 25 THRU 45, CABLED CONSECUTIVELY.  
 SEVENTH - BINDER TAPE.  
 EIGHTH - POLYCHLOROPRENE JACKET. NOMINAL THICKNESS 0.110 INCH.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE	CONDUCTORS		THICKNESS		CABLE OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1000 FT.	
	NO.	SIZE	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
MSPW	16	ASTMB 286 22-7	0.044	0.003	1.635	5000	3000	200	5000	17.71
	18	ASTMB 286 20-7	0.022			2000	1000	200	150	11.03
	25	NAVY STD 3(7)	0.014			2000	1000	200	150	4.44

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 59-CONDUCTOR, TYPE MSP

MIL-C-915/67

## CONSTRUCTION

## CONDUCTOR SIZE 22-7 (16 REQUIRED)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286, SIZE 22-7.  
 SECOND - FLUOROCARBON RESIN INSULATION. SEE TABLE 1.  
 THIRD - BRAIDED SHIELD OF AWG NO. 34 OR 36 COPPER.  
 FOURTH - SHIELD INSULATION OF ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 - ALTERNATE SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.

## CONDUCTOR SIZE 20-7 (18 REQUIRED)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286, SIZE 20-7.  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 COPPER, TIN COATED.  
 FIFTH - SEE FOURTH ABOVE, IN SIZE 22-7 ABOVE.  
 SIXTH - CONDUCTORS NUMBERED 12, 13, & 14, FORMED INTO TRIAD.  
 SEVENTH - CONDUCTORS NUMBERED 19 THRU 24 FORMED THREE INTO PAIRS.

## CONDUCTOR SIZE 3 (7) (25 REQUIRED)

- FIRST - COPPER CONDUCTOR, TIN COATED. NAVY STANDARD SIZE 3 (7).  
 SECOND - POLYVINYL CHLORIDE INSULATION. SEE TABLE 1.  
 THIRD - INSULATION JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
 FOURTH - SIXTEEN CONDUCTORS FORMED INTO EIGHT PAIRS. SEE TABLE 1.  
 FIFTH - NINE CONDUCTORS FORMED INTO THREE TRIADS.  
 SIXTH - OVER EACH PAIR AND EACH TRIAD, BRAIDED SHIELD OF AWG NO. 34 OR 36 CU, TIN COATED.  
 SEVENTH - SEE FOURTH IN SIZE 22-7 ABOVE.

## ASSEMBLY

- FIRST - SOLID POLYCHLOROPRENE FILLER AS CENTER CORE.  
 SECOND - INNER LAYER:  
     (1) SHIELDED TRIADS, NUMBERED 1, 2, & 3.  
     (2) TRIAD, NUMBERED 12, 13, & 14.  
     (3) CONDUCTORS, NUMBERED 15, 16, 17, & 18.  
 THIRD - BINDER TAPE.  
 FOURTH - MIDDLE LAYER:  
     (1) EIGHT SHIELDED PAIRS, NUMBERED 4 THRU 11.  
     (2) THREE PAIRS, NUMBERED 19 & 20, 21 & 22, 23 & 24.  
 FIFTH - BINDER TAPE.  
 SIXTH - OUTER LAYER:  
     (1) CONDUCTORS, NUMBERED 25 THRU 45, CABLED CONSECUTIVELY.  
 SEVENTH - BINDER TAPE.  
 EIGHTH - POLYCHLOROPRENE JACKET. NOMINAL THICKNESS 0.110 INCH.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE	CONDUCTORS		THICKNESS		CABLE OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MIN RMS VOLTS			RESISTANCE PER 1000 FT.	
	NO.	SIZE	INSULA- TION NOMINAL	JACKET NOMINAL		CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
MSP	16	ASTMB 286 22-7	0.044	0.003	1.635	5000	3000	200	5000	17.71
	18	ASTMB 286 20-7	0.022			2000	1000	200	150	11.20
	25	NAVY STD 3(7)	0.014			2000	1000	200	150	4.44

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TWO CONDUCTOR, TYPE DNW

MIL-C-915/68

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SEPARATOR, POLYESTER TYPE G OF MIL-I-631.  
 THIRD - INSULATION OF CROSS-LINKED THERMOSETTING POLYETHYLENE. SEE TABLE 1.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
DNW-3	2	3 (7)	.030	.040	0.390	4000	6000	4.44
DNW-4		4 (7)			0.430		5000	2.78
DNW-9		9 (7)	.045	.045	0.545	5500	3800	1.102
DNW-14		14 (7)			0.610		4400	0.8742
DNW-23		23 (7)			0.690		3700	0.549
DNW-50		50(19)	.055	.050	0.910	7000	2600	0.217
DNW-75		75(37)		.055	1.080			0.137
DNW-100		100(61)			1.170		2400	0.108

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, THREE CONDUCTOR, TYPE TNW

MIL-C-915/69

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SEPARATOR, POLYESTER TYPE G OF MIL-I-631.  
 THIRD - INSULATION OF CROSS-LINKED THERMOSETTING POLYETHYLENE. SEE TABLE 1.  
 FOURTH - THREE CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
TNW-3	3	3 (7)	.030	.040	0.411	4000	6000	4.44
TNW-4		4 (7)			0.449		5000	2.78
TNW-9		9 (7)		.050	0.625		3800	1.102
TNW-14		14 (7)	.045		0.670	5500	4400	0.8742
TNW-23		23 (7)		.055	0.760		3700	0.5492
TNW-50		50(19)		.060	0.969		2600	0.217
TNW-75		75(37)	.055	.070	1.134	7000		0.137
TNW-100		100(61)		.075	1.266		2400	0.108
TNW-150		150(61)			1.515		1800	0.0681



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, FOUR CONDUCTOR, TYPE FNW

MIL-C-915/70

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SEE TABLE 1.  
 SECOND - SEPARATOR, POLYESTER TYPE G OF MIL-I-631.  
 THIRD - INSULATION OF CROSS-LINKED THERMOSETTING POLYETHYLENE. SEE TABLE 1.  
 FOURTH - FOUR CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SEPCIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
FNW-3	4	3 (7)	0.030	0.040	0.447	4000	6000	4.44
FNW-4		4 (7)			0.513		5000	2.78
FNW-9		9 (7)			0.630		3800	1.102
FNW-23		23 (7)	0.045	0.050	0.830	5500	3700	0.5495

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, 1000 VOLTS, MULTICONDUCTOR, TYPE MNW

MIL-C-915/71

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. NAVY STANDARD SIZE 2 (7). SEE TABLE 1.  
 SECOND - SEPARATOR, POLYESTER TYPE G OF MIL-I-631.  
 THIRD - INSULATION OF CROSS-LINKED THERMOSETTING POLYETHYLENE. SEE TABLE 1.  
 FOURTH - REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SEPCIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
MNW-7	7	2 (7)	0.020	0.050	.400	3000	1,000	6.64
MNW-10	10				.495			
MNW-14	14				.535			
MNW-19	19				.590			
MNW-24	24				.685			
MNW-30	30				.725			
MNW-37	37				.785			
MNW-44	44				.890			

## MIL-STD-242 J(NAVY), PART 10

## CABLE, ELECTRICAL, 300 VOLTS, TYPE TPNW

MIL-C-915/72

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. NAVY STANDARD SIZE 3/5 (7). SEE TABLE 1.  
 SECOND - SEMI-RIGID POLYVINYL CHLORIDE.  
 THIRD - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR. SEE TABLE 1.  
 FOURTH - REQUIRED NUMBER OF PAIRS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
TPNW-1-1/2	1-1/2*	3/5(7)	0.009	0.040	.235	2000	1000	16.90
TPNW-3	3				.310			
TPNW-5	5				.365			
TPNW-10	10				.470			
TPNW-15	15				.530			
TPNW-20	20				.575			
TPNW-30	30			0.050	.680			
TPNW-40	40				.765			

\* SIZE 1-1/2 IS COMPOSED OF THREE CONDUCTORS CABLED TO FORM A TRIAD.

## CABLE, ELECTRICAL, TYPE 8NW6

MIL-C-915/75

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. NAVY STANDARD SIZE 6 (7). SEE TABLE 1.  
 SECOND - SEPARATOR, POLYESTER TYPE C OF MIL-I-631.  
 THIRD - INSULATION OF CROSS-LINKED THERMOSETTING POLYETHYLENE. SEE TABLE 1.  
 FOURTH - EIGHT CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO.	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
8NW6	8	6 (7)	0.030	0.040	0.670	4000	4200	1.68

210.53

## CABLE, ELECTRICAL, TYPE 4NWB

MIL-C-915/76

## CONSTRUCTION

- FIRST - COPPER CONDUCTOR, UNCOATED. SIZE 8 (7 X 0.0486 INCH). SEE TABLE 1.  
 SECOND - SEPARATOR, POLYESTER TYPE G OF MIL-I-631.  
 THIRD - INSULATION OF CROSS-LINKED THERMOSETTING POLYETHYLENE. SEE TABLE 1.  
 FOURTH - FOUR CONDUCTORS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MINIMUM RMS (VOLTS)	RESISTANCE PER 1000 FT.	
	NO.	SIZE AWG NO.	INSULA- TION NOMINAL	JACKET NOMINAL			INSU- LATION (MEGOHM)	CONDUCTOR (OHMS)
4NWB	4	8	0.045	0.050	0.74	4500	4200	0.653

210.54

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 2SWL-7

MIL-C-915/77

## CONSTRUCTION

## (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. NAVY STANDARD SIZE 3 (7). SEE TABLE 1.  
 SECOND - POLYETHYLENE INSULATION, TYPE II, CLASS L, GRADE 4 OF L-P-390.  
       - INSULATION JACKET OF CLEAR POLYAMIDE, TYPE III, GRADE E OR TYPE IV OF MIL-M-20693.  
 THIRD - TWO INSULATED CONDUCTORS CABLED TOGETHER TO FORM A PAIR. SEE TABLE 1.  
 FOURTH - BRAIDED SHIELD OF AWG NO. 34 OR 36 TIN COATED COPPER.  
 FIFTH - SHIELD INSULATION OF EITHER (A) OR (B):  
       (A) ONE POLYESTER TAPE, TYPE G OF MIL-I-631, PLUS JACKET OF CLEAR POLYAMIDE, IN ACCORDANCE WITH ASTM D 4066.  
       (B) TWO POLYESTER TAPES, TYPE G OF MIL-I-631, SEALED.  
 SIXTH - SEVEN SHIELDED PAIRS CABLED TOGETHER. SEE TABLE 1.  
 SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER MAX	VOLTAGE WITHSTAND MIN RMS VOLTS				RESISTANCE PER 1000 FT. CONDUCTOR (OHMS)
	NO. OF PAIRS	SIZE NAVY STANDARD	INSULA- TION NOMINAL	JACKET MIN		CONDR. TO CONDR.	CONDR. TO SHIELD	SHIELD TO SHIELD	SHIELD TO WATER	
2SWL-7	7	3 (7)	0.016	0.060	0.910	2000	1000	500	500	4.44

## MIL-STD-242 J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE 2UW-42

MIL-C-915/78

## CONSTRUCTION

(WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED. ASTM B 286, SIZE 26-7. NOM DIA 0.020 INCH.  
 SECOND - POLYPROPYLENE INSULATION. SEE TABLE 1.  
 THIRD - TWO INSULATED CONDUCTORS TWISTED TOGETHER TO FORM A PAIR. SEE TABLE 1.  
 FOURTH - FORTY-TWO PAIRS CABLED TOGETHER. SEE TABLE 1.  
 FIFTH - BINDER TAPE OF POLYESTER, TYPE G OF MIL-I-631, APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.  
 SEVENTH - SEPARATOR TAPE APPLIED HELICALLY WITH OVERLAP.  
 EIGHTH - SPECIAL THERMOPLASTIC JACKET.

TABLE 1. CABLE DETAILS AND CHARACTERISTICS

TYPE AND SIZE	CONDUCTORS		THICKNESS		OVERALL DIAMETER		VOLTAGE WITHSTAND MIN RMS VOLTS		RESISTANCE PER 1000 FT. CONDUCTOR  (OHMS)
	NO. OF PAIRS	SIZE ASTM B 286	INSULA- TION NOMINAL	JACKET MIN			CONDR. TO CONDR.	CONDR. TO SHIELD	
					MIN	MAX			
2UW-42	42	26-7	0.044	0.060	0.750	0.790	2000	1000	45.19

## MIL-STD-242J(NAVY), PART 10

## MIL-C-915 AND/OR MIL-C-24643

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840 AND/OR MIL-C-5015)

CABLE				MIL-C-28840 SHELL SIZE & NO. OF CONT	MIL-C-5015 SHELL SIZE INSERT ARR	PART NUMBER ORDERING INFO
MIL-C-915		MIL-C-24643				
TYPE	SLASH SHEET	TYPE	SLASH SHEET			
DCOP-1	3	LSDCOP-1	2		12S-3	MS340*DJ 12A3P/S
DCOP-1-1/2	3	LSDCOP-1-1/2	2		12S-3	MS340*DJ 12E3P/S
DCOP-2	3	LSDCOP-2	2		12S-3	MS340*DJ 12E3P/S
DHOF-3	6	LSDHOF-3	3		12S-3	MS340*DJ 12D3P/S
DHOF-4	6	LSDHOF-4	3		20-4	MS340*DJ 20A4P/S
DHOF-6	6	LSDHOF-6	3		20-4	MS340*DJ 20A4P/S
DHOF-9	6	LSDHOF-9	3		22-22	MS340*DJ 22A22P/S
DHOF-14	6	LSDHOF-14	3		22-22	MS340*DJ 22B22P/S
DHOF-23	6	LSDHOF-23	3		32-17	MS340*DJ 32A17P/S
DHOF-30	6	LSDHOF-30	3		32-17	MS340*DJ 32B17P/S
DHOF-83	6	LSDHOF-83	3		36-5	MS345*W 36-5P/S
DHOF-83	6	LSDHOF-83	3		36-5	MS3450KS36-5P/S
DHOF-83	6	LSDHOF-83	3		36-5	MS3456KS36-5P/S
DHOF-83	6	LSDHOF-83	3		36-5	MS3459KS36-5P/S
DNW-3	68	LSDNW-3	48		12S-3	MS340*DJ 12E3P/S
DNW-4	68	LSDNW-4	48		20-4	MS340*DJ 20F4P/S
DNW-9	68	LSDNW-9	48		22-22	MS340*DJ 22A22P/S
DNW-14	68	LSDNW-14	48		22-22	MS340*DJ 22A22P/S
DNW-23	68	LSDNW-23	48		22-22	MS340*DJ 22B22P/S
DNW-50	68	LSDNW-50	48		32-17	MS340*DJ 32A17P/S
DNW-75	68	LSDNW-75	48		36-5	MS345*W 36-5P/S
DNW-75	68	LSDNW-75	48		36-5	MS3450KS36-5P/S
DNW-75	68	LSDNW-75	48		36-5	MS3456KS36-5P/S
DNW-75	68	LSDNW-75	48		36-5	MS3459KS36-5P/S
DNW-100	68	LSDNW-100	48		36-5	MS345*W 36-5P/S
DNW-100	68	LSDNW-100	48		36-5	MS3450KS36-5P/S
DNW-100	68	LSDNW-100	48		36-5	MS3456KS36-5P/S
DNW-100	68	LSDNW-100	48		36-5	MS3459KS36-5P/S
DPS-3	40	LSDPS-3	26		12S-3	MS340*DJ 12D3P/S
DPS-4	40	LSDPS-4	26		20-4	MS340*DJ 20A4P/S
DPS-6	40	LSDPS-6	26		20-4	MS340*DJ 20A4P/S
DPS-9	40	LSDPS-9	26		22-22	MS340*DJ 22B22P/S
DPS-14	40	LSDPS-14	26		22-22	MS340*DJ 22D22P/S
DSGU-3	29	LSDSGU-3	15		12S-3	MS340*DJ 12D3P/S
DSGU-4	29	LSDSGU-4	15		20-4	MS340*DJ 20F4P/S
DSGU-9	29	LSDSGU-9	15		22-22	MS340*DJ 22A22P/S
DSGU-14	29	LSDSGU-14	15		22-22	MS340*DJ 22B22P/S
DSGU-23	29	LSDSGU-23	15		22-22	MS340*DJ 22D22P/S
DSGU-50	29	LSDSGU-50	15		32-17	MS340*DJ 32A17P/S
DSGU-75	29	LSDSGU-75	15		36-5	MS345*W 36-5P/S
DSGU-75	29	LSDSGU-75	15		36-5	MS3450KS36-5P/S
DSGU-75	29	LSDSGU-75	15		36-5	MS3456KS36-5P/S
DSGU-75	29	LSDSGU-75	15		36-5	MS3459KS36-5P/S
DSGU-100	29	LSDSGU-100	15		36-5	MS345*W 36-5P/S
DSGU-100	29	LSDSGU-100	15		36-5	MS3450KS36-5P/S



## MIL-STD-242J(NAVY), PART 10

## MIL-C-28840 AND/OR MIL-C-5015

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840AND/OR MIL-C-5015)

CABLE				MIL-C-28840	MIL-C-5015	PART NUMBER ORDERING INFO
MIL-C-915		MIL-C-24643		SHELL SIZE & NO. OF CONT	SHELL SIZE INSERT ARR	
TYPE	SLASH SHEET	TYPE	SLASH SHEET			
DSGU-100	29	LSDSGU-100	15		36-5	MS3456KS36-5P/S
DSGU-100	29	LSDSGU-100	15		36-5	MS3459KS36-5P/S
DSS-2	8				10SL-3	MS340*DJ 10B3P/S
DSS-3	8				14S-2	MS340*DJ 14D2P/S
DSS-4	8				20-4	MS340*DJ 20A4P/S
ECM	54	LSECM	38		40-56	MS340*DJ 40B56P/S
FHOF-3	6	LSFHOF-3	3		14S-2	MS340*DJ 14D2P/S
FHOF-4	6	LSFHOF-4	3		20-4	MS340*DJ 20A4P/S
FHOF-9	6	LSFHOF-9	3		22-22	MS340*DJ 22B22P/S
FHOF-42	6	LSFHOF-42	3		32-17	MS340*DJ 32E17P/S
FHOF-60	6	LSFHOF-60	3		36-5	MS345*W 36-5P/S
FHOF-60	6	LSFHOF-60	3		36-5	MS3450KS36-5P/S
FHOF-60	6	LSFHOF-60	3		36-5	MS3456KS36-5P/S
FHOF-60	6	LSFHOF-60	3		36-5	MS3459KS36-5P/S
FNW-3	70	LSFNW-3	50		14S-2	MS340*DJ 14D2P/S
FNW-4	70	LSFNW-4	50		20-4	MS340*DJ 20A4P/S
FNW-9	70	LSFNW-9	50		22-22	MS340*DJ 22B22P/S
FNW-23	70	LSFNW-23	50		22-22	MS340*DJ 22D22P/S
FPS-14	40	LSFPS-14	26		22-22	MS340*DJ 22D22P/S
FSGU-3	31	LSFSGU-3	17		14S-2	MS340*DJ 14D2P/S
FSGU-4	31	LSFSGU-4	17		20-4	MS340*DJ 20A4P/S
FSGU-9	31	LSFSGU-9	17		22-22	MS340*DJ 22B22P/S
FSGU-23	31	LSFSGU-23	17		22-22	MS340*DJ 22H22P/S
FSGU-50	31	LSFSGU-50	17		32-17	MS340*DJ 32B17P/S
FSGU-75	31	LSFSGU-75	17		36-5	MS345*W 36-5P/S
FSGU-75	31	LSFSGU-75	17		36-5	MS3450KS36-5P/S
FSGU-75	31	LSFSGU-75	17		36-5	MS3456KS36-5P/S
FSGU-75	31	LSFSGU-75	17		36-5	MS3459KS36-5P/S
FSGU-100	31	LSFSGU-100	17		36-5	MS345*W 36-5P/S
FSGU-100	31	LSFSGU-100	17		36-5	MS3450KS36-5P/S
FSGU-100	31	LSFSGU-100	17		36-5	MS3456KS36-5P/S
FSGU-100	31	LSFSGU-100	17		36-5	MS3459KS36-5P/S
FSS-2	8				16S-1	MS340*DJ 16E1P/S
FSS-3	8				16S-1	MS340*DJ 16E1P/S
FSS-4	8				22-23	MS340*DJ 22B23P/S
MCOS-2	11	LSMCOS-2	4		14S-2	MS340*DJ 14D2P/S
MCOS-4	11	LSMCOS-4	4		16S-1	MS340*DJ 16E1P/S
MCOS-5	11	LSMCOS-5	4		16S-1	MS340*DJ 16D1P/S
MCOS-6	11	LSMCOD-6	4		18-1	MS340*DJ 18A1P/S
MCOS-7	11	LSMCOS-7	4		18-1	MS340*DJ 18A1P/S
MHOF-7	14	LSMHOF-7	7		16S-1	MS340*DJ 16E1P/S
MHOF-10	14	LSMHOF-10	7		18-1	MS340*DJ 18A1P/S
MHOF-14	14	LSMHOF-14	7		20-27	MS340*DJ 20B27P/S
MHOF-19	14	LSMHOF-19	7		24-28	MS340*DJ 24A28P/S
MHOF-24	14	LSMHOF-24	7		24-28	MS340*DJ 24D28P/S

## MIL-STD-242J(NAVY), PART 10

## MIL-C-28840 AND/OR MIL-C-5015

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840AND/OR MIL-C-5015)

CABLE				MIL-C-28840	MIL-C-5015	PART NUMBER ORDERING INFO
MIL-C-915		MIL-C-24643		SHELL SIZE & NO. OF CONT	SHELL SIZE INSERT ARR	
TYPE	SLASH SHEET	TYPE	SLASH SHEET			
MHOF-30	14	LSMHOF-30	7	11-7	28-21	MS340*DJ 28B21P/S
MHOF-37	14	LSMHOF-37	7		28-21	MS340*DJ 28B21P/S
MHOF-44	14	LSMHOF-44	7		36-10	MS340*DJ 36A10P/S
MHOF-61	14	LSMHOF-61	7		40-56	MS340*DJ 40A56P/S
MMOP-5	15	LSMMOP-5	8			M28840/26CA1AB*1
MNW-7	71	LSMNW-7	51		16S-1	MS340*DJ 16D1P/S
MNW-10	71	LSMNW-10	51		18-1	MS340*DJ 18A1P/S
MNW-14	71	LSMNW-14	51		20-27	MS340*DJ 20A27P/S
MNW-19	71	LSMNW-19	51		24-28	MS340*DJ 24A28P/S
MNW-24	71	LSMNW-24	51		24-28	MS340*DJ 24A28P/S
MNW-30	71	LSMNW-30	51		28-21	MS340*DJ 28A21P/S
MNW-37	71	LSMNW-37	51	15-21	28-21	MS340*DJ 28A21P/S
MNW-44	71	LSMNW-44	51		36-10	MS340*DJ 36G10P/S
MS-37	50	LSMS-37	34		36-10	MS340*DJ 36G10P/S
MSCU-7	32	LSMSCU-7	18		16S-1	MS340*DJ 16E1P/S
MSCU-10	32	LSMSCU-10	18		18-1	MS340*DJ 18B1P/S
MSCU-14	32	LSMSCU-14	18		20-27	MS340*DJ 20B27P/S
MSCU-19	32	LSMSCU-19	18		24-28	MS340*DJ 24B28P/S
MSCU-24	32	LSMSCU-24	18		24-28	MS340*DJ 24D28P/S
MSCU-30	32	LSMSCU-30	18		28-21	MS340*DJ 28D21P/S
MSCU-37	32	LSMSCU-37	18		28-21	MS340*DJ 28D21P/S
MSCU-44	32	LSMSCU-44	18		36-10	MS340*DJ 36A10P/S
MSCU-61	32	LSMSCU-61	18	13-12	40-56	MS340*DJ 40B56P/S
MSCU-91	32	LSMSCU-91	18		44-52	MS340*DJ 44D52P/S
MSP	67				44-52	MS340*DJ 44E52D/E
MSPW	66				44-52	MS340*DJ 44E52D/E
MU-14	43	LSMU-14	29			M28840/26CC1DB*1
MUS-14	43	LSMUS-14	29			M28840/26CC1BB*1
MWF-7	58				16S-1	MS340*DJ 16E1P/S
MWF-10	58				18-1	MS340*DJ 18B1P/S
MWF-14	58				20-27	MS340*DJ 20B27P/S
MWF-19	58				24-28	MS340*DJ 24A28P/S
MWF-24	58				24-28	MS340*DJ 24D28P/S
MWF-30	58			17-31	28-21	MS340*DJ 28D21P/S
MWF-37	58				28-21	MS340*DJ 28D21P/S
PBTMU-5	17	LSPBTMU-5	10			M28840/26CB1CB*1
PBTMU-15	17	LSPBTMU-15	10			M28840/26CD1BB*1
PBTMU-30	17	LSPBTMU-30	10			M28840/26CF1CB*1
PI-3	39	LSPI-3	24		18-1	MS340*DJ 18B1P/S
PI-7	39	LSPI-7	24		24-28	MS340*DJ 24D28P/S
PI-12	39	LSPI-12	24		28-21	MS340*DJ 28D21P/S
SSGU-50	28	LSSSGU-50	14		18-6	MS340*DJ 18A6P/S
SSGU-75	28	LSSSGU-75	14		20-2	MS340*DJ 20B2P/S
SSGU-100	28	LSSSGU-100	14		20-2	MS340*DJ 20B2P/S
TCOP-2	3	LSTCOP-2	2	23-64	10SL-3	MS340*DJ 10B3P/S
TCJU-4	25	LSTCJU-4	21		20-4	MS340*DJ 20A4A/B
TCJX-3	38	LSTCJX-3	24		16S-1	MS340*DJ 16B1A/B

## MIL-STD-242J(NAVY), PART 10

## MIL-C-28840 AND/OR MIL-C-5015

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840AND/OR MIL-C-5015)

CABLE				MIL-C-28840	MIL-C-5015	PART NUMBER ORDERING INFO
MIL-C-915		MIL-C-24643		SHELL SIZE & NO. OF CONT	SHELL SIZE INSERT ARR	
TYPE	SLASH SHEET	TYPE	SLASH SHEET			
TCJX-7	38	LSTCJX-7	24		20-27	MS340*DJ 20E27A/B
TCJX-12	38	LSTCJX-12	24		28-21	MS340*DJ 28E21A/B
TCKX-1	38	LSTCKX-1	24		12S-3	MS340*DJ 12D3A/B
TCKX-3	38	LSTCKX-3	24		16S-1	MS340*DJ 16B1A/B
TCKX-7	38	LSTCKX-7	24		20-27	MS340*DJ 20E27A/B
TCKX-12	38	LSTCKX-12	24		28-21	MS340*DJ 28E21A/B
TCTU-4	35	LSTCTU-4	21		20-4	MS340*DJ 20A4A/B
TCTX-1	38	LSTCTX-1	24		12S-3	MS340*DJ 12E3A/B
TCTX-3	38	LSTCTX-3	24		16S-1	MS340*DJ 16E1A/B
TCTX-7	38	LSTCTX-7	24		20-27	MS340*DJ 20B27A/B
TCTX-12	38	LSTCTX-12	24		24-28	MS340*DJ 24G28A/B
THOF-3	6	LSTHOF-3	3		14S-2	MS340*DJ 14D2P/S
THOF-4	6	LSTHOF-4	3		20-4	MS340*DJ 20A4P/S
THOF-6	6	LSTHOF-6	3		20-4	MS340*DJ 20A4P/S
THOF-9	6	LSTHOF-9	3		22-22	MS340*DJ 22A22P/S
THOF-14	6	LSTHOF-14	3		22-22	MS340*DJ 22D22P/S
THOF-23	6	LSTHOF-23	3		32-17	MS340*DJ 32A17P/S
THOF-42	6	LSTHOF-42	3		32-17	MS340*DJ 32D17P/S
TNW-3	69	LSTNW-3	49		10SL-3	MS340*DJ 10B3P/S
TNW-4	69	LSTNW-4	49		20-4	MS340*DJ 20A4P/S
TNW-9	69	LSTNW-9	49		22-22	MS340*DJ 22B22P/S
TNW-14	69	LSTNW-14	49		22-22	MS340*DJ 22B22P/S
TNW-23	69	LSTNW-23	49		22-22	MS340*DJ 22D22P/S
TNW-50	69	LSTNW-50	49		32-17	MS340*DJ 32B17P/S
TNW-75	69	LSTNW-75	49		36-5	MS345*W 36-5P/S
TNW-75	69	LSTNW-75	49		36-5	MS3450KS36-5P/S
TNW-75	69	LSTNW-75	49		36-5	MS3456KS36-5P/S
TNW-75	69	LSTNW-75	49		36-5	MS3459KS36-5P/S
TNW-100	69	LSTNW-100	49		36-5	MS345*W 36-5P/S
TNW-100	69	LSTNW-100	49		36-5	MS3450KS36-5P/S
TNW-100	69	LSTNW-100	49		36-5	MS3456KS36-5P/S
TNW-100	69	LSTNW-100	49		36-5	MS3459KS36-5P/S
TPNW-1-1/2	72	LSTPNW-1-1/2	52	11-7		M28840/26CA1AB*1
TPNW-3	72	LSTPNW-3	52	11-7		M28840/26CA1AB*1
TPNW-5	72	LSTPNW-5	52	13-12		M28840/26CB1BB*1
TPNW-10	72	LSTPNW-10	52	15-21		M28840/26CC1BB*1
TPNW-15	72	LSTPNW-15	52	17-31		M28840/26CD1AB*1
TPNW-20	72	LSTPNW-20	52	19-42		M28840/26CE1AB*1
TPNW-30	72	LSTPNW-30	52	23-64		M28840/26CF1AB*1
TPNW-40	72	LSTPNW-40	52	25-92		M28840/26CG1AB*1
TPS-3	40	LSTPS-3	26		14S-2	MS340*DJ 14D2P/S
TPS-4	40	LSTPS-4	26		20-4	MS340*DJ 20A4P/S
TPS-6	40	LSTPS-6	26		20-4	MS340*DJ 20B4P/S
TPS-9	40	LSPTS-9	26		22-22	MS340*DJ 22B22P/S
TPS-14	40	LSPTS-14	26		22-22	MS340*DJ 22D22P/S
TPS-23	40	LSTPS-23	26		22-22	MS340*DJ 22D22P/S
TPS-30	40	LSTPS-30	26		32-17	MS340*DJ 32B17P/S

## MIL-STD-242J(NAVY), PART 10

## MIL-C-28840 AND/OR MIL-C-5015

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840AND/OR MIL-C-5015)

CABLE				MIL-C-28840	MIL-C-5015	PART NUMBER ORDERING INFO	
MIL-C-915		MIL-C-24643		SHELL SIZE & NO. OF CONT	SHELL SIZE INSERT ARR		
TYPE	SLASH SHEET	TYPE	SLASH SHEET				
TSGU-3	30	LSTSGU-3	16	17-31 23-64	14S-2	MS340*DJ 14A2P/S	
TSGU-4	30	LSTSGU-4	16		20-4	MS340*DJ 20A4P/S	
TSGU-9	30	LSTSGU-9	16		22-22	MS340*DJ 22B22P/S	
TSGU-14	30	LSTSGU-14	16		22-22	MS340*DJ 22D22P/S	
TSGU-23	30	LSTSGU-23	16		22-22	MS340*DJ 22D22P/S	
TSGU-50	30	LSTSGU-50	16		32-17	MS340*DJ 32B17P/S	
TSGU-75	30	LSTSGU-75	16		36-5	MS345*W 36-5P/S	
TSGU-75	30	LSTSGU-75	16		36-5	MS3450KS36-5P/S	
TSGU-75	30	LSTSGU-75	16		36-5	MS3456KS36-5P/S	
TSGU-75	30	LSTSGU-75	16		36-5	MS3459KS36-5P/S	
TSGU-100	30	LSTSGU-100	16		36-5	MS345*W 36-5P/S	
TSGU-100	30	LSTSGU-100	16		36-5	MS3450KS36-5P/S	
TSGU-100	30	LSTSGU-100	16		36-5	MS3456KS36-5P/S	
TSGU-100	30	LSTSGU-100	16		36-5	MS3459KS36-5P/S	
TSP-11	22						M28840/26CD1BB*1
TSP-31	22						M28840/26CF1CB*1
TSS-2	8					14S-2	MS340*DJ 14A2P/S
TSS-3	8					14S-2	MS340*DJ 14A2P/S
TSS-4	8					20-4	MS340*DJ 20A4P/S
TTOP-3	24	LSTTOP-3	12			16S-1	MS340*DJ 16E1P/S
TTOP-5	24	LSTTOP-5	12			18-1	MS340*DJ 18A1P/S
TTOP-10	24	LSTTOP-10	12			24-28	MS340*DJ 24A28P/S
TTOP-15	24	LSTTOP-15	12			28-21	MS340*DJ 28B21P/S
TTRS-2	25	LSTTRS-2	13			16S-1	MS340*DJ 16A1P/S
TTRS-4	25	LSTTRS-4	13			20-27	MS340*DJ 20B27P/S
TTRS-6	25	LSTTRS-6	13			24-28	MS340*DJ 24D28P/S
TTRS-8	25	LSTTRS-8	13			24-28	MS340*DJ 24G28P/S
TTRS-10	25	LSTTRS-10	13			28-21	MS340*DJ 28D21P/S
TTRS-12	25	LSTTRS-12	13			28-21	MS340*DJ 28D21P/S
TTRS-16	25	LSTTRS-16	13			36-10	MS340*DJ 36A10P/S
TTSU-1-1/2	37	LSTTSU-1-1/2	23			10S-3	MS340*DJ 10B3D/E
TTSU-3	37	LSTTSU-3	23			16S-1	MS340*DJ 16E1P/S
TTSU-5	37	LSTTSU-5	23			18-1	MS340*DJ 18A1D/E
TTSU-10	37	LSTTSU-10	23			24-28	MS340*DJ 24A28D/E
TTSU-15	37	LSTTSU-15	23		28-21	MS340*DJ 28B21D/E	
TTSU-20	37	LSTTSU-20	23		36-10	MS340*DJ 36G10D/E	
TTSU-30	37	LSTTSU-30	23		40-62	MS340*DJ 40A62D/E	
TTSU-40	37	LSTTSU-40	23		40-56	MS340*DJ 40B56D/E	
TTSU-50	37	LSTTSU-50	23		44-52	MS340*DJ 44D52D/E	
LSAU-44	57	LS1SAU-44	41	25-92		M28840/26CG1BB*1	
LSMU-5	56	LS1SMU-5	40		18-1	MS340*DJ 18A1D/E	
LSU-36	59	LS1SU-36	42		40-56	MS340*DJ 40A56P/S	
LSWF-2	47				14S-2	MS340*DJ 14B2D/E	
LSWU-2	44	LS1SWU-2	30		14S-2	MS340*DJ 14D2D/E	
LSWU-14	44	LS1SWU-14	30		28-21	MS340*DJ 28B21D/E	

## MIL-STD-242J(NAVY), PART 10

## MIL-C-28840 AND/OR MIL-C-5015

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840AND/OR MIL-C-5015)

CABLE				MTL-C-28840 SHELL SIZE & NO. OF CONT	MIL-C-5015 SHELL SIZE INSERT ARR	PART NUMBER ORDERING INFO
MIL-C-915		MTL-C-24643				
TYPE	SLASH SHEET	TYPE	SLASH SHEET			
1SWU-20	44	LS1SWU-20	30		36-10	MS340*DJ 36A10D/E
1SWU-30	44	LS1SWU-30	30		40-62	MS340*DJ 40A62D/E
1S50MU-16	42	LS1S50MU-16	28		28-21	MS340*DJ 28B21D/E
1S50MU-20	42	LS1S50MU-20	28		36-10	MS340*DJ 36G10D/E
1S50MU-40	42	LS1S50MU-40	28		40-56	MS340*DJ 40A56D/E
1S50MUS-16	42	LS1S50MUS-16	28		28-21	MS340*DJ 28B21D/E
1S50MUS-20	42	LS1S50MUS-20	28		36-10	MS340*DJ 36G10D/E
1S50MUS-40	42	LS1S50MUS-40	28		40-56	MS340*DJ 40A56D/E
1S75MU-8	55	LS1S75MU-8	39		24-28	MS340*DJ 24G28D/E
2AU-40	41	LS2AU-40	27		40-56	MS340*DJ 40B56D/E
2AUS-40	41	LS2AUS-40	27		40-56	MS340*DJ 40D56D/E
2SJ-7	60	LS2SJ-7	43		22-22	MS340*DJ 22A22P/S
2SJ-9	60	LS2SJ-9	43		22-22	MS340*DJ 22A22P/S
2SJ-11	60	LS2SJ-11	43		22-22	MS340*DJ 22A22P/S
2SJ-12	60	LS2SJ-12	43		20-4	MS340*DJ 20F4P/S
2SJ-14	60	LS2SJ-14	43		20-4	MS340*DJ 20F4P/S
2SJ-16	60	LS2SJ-16	43		10SL-3	MS340*DJ 10B3P/S
2SJ-18	60	LS2SJ-18	43		10SL-3	MS340*DJ 10A3P/S
2SJ-20	60	LS2SJ-20	43		10SL-3	MS340*DJ 10A3P/S
2SJ-22	10				10SL-3	MS340*DJ 10A3P/S
2SU-3	45	LS2SU-3	31	13-12		M28840/26CB1CB*1
2SU-7	45	LS2SU-7	31	15-12		M28840/26CC1DB*1
2SU-10	45	LS2SU-10	31	19-42		M28840/26CE1BB*1
2SU-14	45	LS2SU-14	31	19-42		M28840/26CE1BB*1
2SU-19	45	LS2SU-19	31	23-64		M28840/26CF1CB*1
2SU-24	45	LS2SU-24	31	25-92		M28840/26CG1DB*1
2SU-30	45	LS2SU-30	31	25-92		M28840/26CG1DB*1
2SU-37	45	LS2SU-37	31	29-121		M28840/26CH1BB*1
2SU-44	45	LS2SU-44	31	33-155		M28840/26CJ1BB*1
2SWAU-3	46	LS2SWAU-3	32	13-12		M28840/26CB1CB*1
2SWAU-7	46	LS2SWAU-7	32	15-21		M28840/26CC1DB*1
2SWAU-10	46	LS2SWAU-10	32	19-42		M28840/26CE1BB*1
2SWAU-14	46	LS2SWAU-14	32	19-42		M28840/26CE1BB*1
2SWAU-19	46	LS2SWAU-19	32	23-64		M28840/26CF1CB*1
2SWAU-24	46	LS2SWAU-24	32	25-92		M28840/26CG1DB*1
2SWAU-30	46	LS2SWAU-30	32	25-92		M28840/26CG1DB*1
2SWAU-37	46	LS2SWAU-37	32	29-121		M28840/26CH1BB*1
2SWAU-44	46	LS2SWAU-44	32	33-155		M28840/26CJ1BB*1
2SWF-3	48			13-12		M28840/26CB1DB*1
2SWF-4	48			13-12		M28840/26CB1DB*1
2SWF-7	48			19-42		M28840/26CE1BB*1
2SWL-7	77	LS2SWL-7	56		24-28	MS340*DJ 24A28P/S
2SWU-1	49	LS2SWU-1	33		10SL-3	MS340*DJ 10B3P/S
2SWU-3	49	LS2SWU-3	33		18-1	MS340*DJ 18B1P/S
2SWU-7	49	LS2SWU-7	33		24-28	MS340*DJ 24D28P/S
2SWU-12	49	LS2SWU-12	33		28-21	MS340*DJ 28D21P/S

## MIL-STD-242J(NAVY), PART 10

## MIL-C-28840 AND/OR MIL-C-5015

TABLE IV. CABLE(MIL-C-915 AND MIL-C-24643) TO CONNECTORS(MIL-C-28840AND/OR MIL-C-5015)

CABLE				MIL-C-28840	MIL-C-5015	PART NUMBER ORDERING INFO
MIL-C-915		MIL-C-24643		SHELL SIZE & NO. OF CONT	SHELL SIZE INSERT ARR	
TYPE	SLASH SHEET	TYPE	SLASH SHEET			
2SWU-19	49	LS2SWU-19	33	15-21 17-31 19-42 23-64 25-92 29-121 25-92	40-62	MS340*DJ 40D62P/S
2SWU-24	49	LS2SWU-24	33		40-56	MS340*DJ 40D56P/S
2SWU-30	49	LS2SWU-30	33		44-52	MS340*DJ 44E52P/S
2U-10	63	LS2U-10	45			M28840/26CC1BB*1
2U-15	63	LS2U-15	45			M28840/26CD1AB*1
2U-19	63	LS2U-19	45			M28840/26CE1AB*1
2U-30	63	LS2U-30	45			M28840/26CF1AB*1
2U-45	63	LS2U-45	45			M28840/26CG1AB*1
2U-60	63	LS2U-60	45			M28840/26CH1AB*1
2UW-42	78	LS2UW-42	57			M28840/26CG1AB*1
2WU-40	64	LS2WU-40	46		40-56	MS340*DJ 40B56D/E
3SF-7	62	LS3SF-7	44		28-21	MS340*DJ 28D21P/S
3SJ-9	60	LS3SJ-9	43		22-22	MS340*DJ 22A22P/S
3SJ-12	60	LS3SJ-12	43		20-4	MS340*DJ 20A4P/S
3SJ-14	60	LS3SJ-14	43		20-4	MS340*DJ 20F4P/S
3SJ-16	60	LS3SJ-16	43		14S-2	MS340*DJ 14E2P/S
3SJ-18	60	LS3SJ-18	43		14S-2	MS340*DJ 14E2P/S
3SJ-20	60	LS3SJ-20	43		14S-2	MS340*DJ 14E2P/S
3SJ-22	60	LS3SJ-22	43		14S-2	MS340*DJ 14E2P/S
3SU-3	51	LS3SU-3	35		20-27	MS340*DJ 20B27P/S
3SU-7	51	LS3SU-7	35		28-21	MS340*DJ 28B21P/S
3SU-10	51	LS3SU-10	35		36-10	MS340*DJ 36A10P/S
3SU-14	51	LS3SU-14	35		40-62	MS340*DJ 40B62P/S
3SU-19	51	LS3SU-19	35		40-56	MS340*DJ 40D56P/S
3SU-24	51	LS3SU-24	35		44-52	MS340*DJ 44E52P/S
3SWU-3	52	LS3SWU-3	36		20-27	MS340*DJ 20B27P/S
3SWU-7	52	LS3SWU-7	36		28-21	MS340*DJ 28B21P/S
3SWU-10	52	LS3SWU-10	36		36-10	MS340*DJ 36A10P/S
3SWU-14	52	LS3SWU-14	36		40-62	MS340*DJ 40B62P/S
3SWU-19	52	LS3SWU-19	36		40-56	MS340*DJ 40D56P/S
3SWU-24	52	LS3SWU-24	36		44-52	MS340*DJ 44E52P/S
3U-3	53	LS3U-3	37		18-1	MS340*DJ 18B1D/E
3U-7	53	LS3U-7	37		24-28	MS340*DJ 24D28P/S
3U-12	53	LS3U-12	37		28-21	MS340*DJ 28D21P/S
4NW-8	76	LS4NW-8	55		22-22	MS340*DJ 22D22P/S
4SJ-14	60	LS4SJ-14	43		22-23	MS340*DJ 22G23P/S
4SJ-16	60	LS4SJ-16	43		16S-1	MS340*DJ 16D1P/S
4SJ-20	60	LS4SJ-20	43		16S-1	MS340*DJ 16D1P/S
5SS	74				16S-1	MS340*DJ 16A1P/S
7PS-6	40	LS7PS-6	27		22-23	MS340*DJ 22D23P/S
7SGU-3	34	LS7SGU-3	20		16S-1	MS340*DJ 16A1P/S
7SGU-4	34	LS7SGU-4	20		22-23	MS340*DJ 22A23P/S
7SS-2	8				18-1	MS340*DJ 18B1P/S
8NW-6	75	LS8NW-6	54		22-23	MS340*DJ 22B23P/S

## MIL-STD-242J(NAVY), PART 10

CABLE AND CORD, ELECTRICAL, LOW SMOKE, FOR SHIPBOARD USE,

MIL-C-24643

SCOPE: THIS SPECIFICATION COVERS LOW SMOKE ELECTRICAL CABLE AND CORD FOR NAVY SHIPBOARD APPLICATIONS. CABLES AND CORDS COVERED BY THIS SPECIFICATION SHALL BE CLASSIFIED AS WATERTIGHT AND NONWATERTIGHT CONSTRUCTION, ARMORED AND UNARMORED AND FURTHER CLASSIFIED FOR FLEXING AND NONFLEXING SERVICE FOR POWER, LIGHTING, CONTROL, COMMUNICATIONS, INSTRUMENTATION AND ELECTRONIC APPLICATIONS. CABLES AND CORDS SPECIFIED HEREIN ARE INTENDED FOR USE IN VARIOUS APPLICATIONS INVOLVING NAVAL SHIPS AND SHORE STATIONS.

PART NUMBER: M24643/21-01UN

	<u>M</u>	<u>24643</u>	<u>/21</u>	<u>-01</u>	<u>U</u>	<u>N</u>
MILITARY DESIGNATION	_____	_____	_____	_____	_____	_____
SPECIFICATION NUMBER	_____	_____	_____	_____	_____	_____
SPECIFICATION SHEET NUMBER	_____	_____	_____	_____	_____	_____
DASH NUMBER	_____	_____	_____	_____	_____	_____
A = ARMORED	_____					
U = UNARMORED	_____					
O = OVERALL	_____					
D = DOUBLE OVERALL SHIELDED	_____					
N = NOT SHIELDED	_____					

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPES LSDCOP AND LSTCOP

MIL-C-24643/2

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED, CLASS K STRANDING  
 SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION  
 THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL WALL THICKNESS 0.015 INCH.  
 FOURTH - THE SPECIFIED NUMBER OF CONDUCTORS SHALL BE CABLED TOGETHER.  
 FIFTH - A POLYESTER BINDER TAPE.  
 SIXTH - CROSS-LINKED POLYOLEFIN JACKET.

TABLE I. DETAILS

PART NUMBER M24643/2 -	TYPE AND SIZE	CONDUCTORS		CABLING LAY (MAX) IN	OVERALL DIA MAX IN	INSUL RES	CONDUCTOR RESISTANCE 1000 FEET (MAX) (OHMS)
		NO.	SIZE AWG				
01UN	LSDCOP-1	2	20(CLASS K)	1	.250	100	10.6
02UN	LSDCOP-1/1-2		18(CLASS K)	3/8	.315		6.66
03UN	LSDCOP-2	3		2	.330		
04UN	LSTCOP-2				.345		



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES LSSHOF, LSDHOF, LSTHOF, AND LSFHOF

MIL-C-24643/3

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER, CONDUCTOR, UNCOATED.  
 SECOND - SEPARATOR.  
 THIRD - ETHYLENE PROPYLENE RUBBER INSULATION.  
 FOURTH - REINFORCEMENT ON TYPE LSSHOF, SIZES 23 AND LARGER.  
 FIFTH - THE REQUIRED NUMBER OF CONDUCTORS CABLES TOGETHER.  
 SIXTH - BINDER TYPE APPLIED HELICALLY WITH OVERLAP ON MULTICONDUCTOR CABLES.  
 SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/3-	TYPE AND SIZE	CONDUCTOR SIZE		LAY OF CONDUCTOR (MAX) IN	OVERALL DIA MAX IN	INSUL RES	CONDUCTOR RESISTANCE 1000 FEET (MAX) (OHMS)
		NAVY STANDARD	AWG				
01UN	LSSHOF-3		16(CLASS M)		.210	300	4.18
02UN	LSSHOF-23		7(CLASS G)		.460	300	.539
03UN	LSSHOF-60	60(304)			.600	250	.187
10UN	LSDHOF-3		16(CLASS K)	2	.425	300	4.18
11UN	LSDHOF-4		14(CLASS K)	2	.460	250	2.62
12UN	LSDHOF-6		12(CLASS K)	2-1/2	.510	200	1.65
13UN	LSDHOF-9		10(CLASS K)	3	.570	200	1.04
14UN	LSDHOF-14	14(140)		4	.705	200	.802
15UN	LSDHOF-23		7(CLASS G)	5-1/2	.860	150	.539
16UN	LSDHOF-30		5(CLASS K)	7-1/2	.960	150	.339
17UN	LSDHOF-83	83(418)		16	1.450	150	.139
20UN	LSTHOF-3		16(CLASS K)	2	.450	300	4.18
21UN	LSTHOF-4		14(CLASS K)	2-1/2	.480	250	2.62
22UN	LSTHOF-6		12(CLASS K)	3	.550	200	1.65
23UN	LSTHOF-9		10(CLASS K)	3-1/2	.600	200	1.04
24UN	LSTHOF-14	14(140)		4-1/2	.750	200	.802
25UN	LSTHOF-23		7(CLASS G)	6	.900	150	.539
26UN	LSTHOF-42	42(209)		12	1.250	150	.277
32UN	LSFHOF-3		16(CLASS K)	2-1/2	.480	300	4.18
33UN	LSFHOF-4		14(CLASS K)	3	.550	250	2.62
34UN	LSFHOF-9		10(CLASS K)	4	.660	200	1.04
35UN	LSFHOF-42	42(209)		15	1.380	150	.277
36UN	LSFHOF-60	60(304)		18	1.510	150	.191

## MIL-STD-242J(NAVY), PART 10

CORD, ELECTRICAL, 600 VOLTS, TYPE LSMCOS

MIL-C-24643/4

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED.  
 SECOND - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION.  
 THIRD - THE REQUIRED NUMBER OF SINGLES AND SHIELDED PAIRS CABLED TOGETHER.

TABLE I. DETAILS

PART NUMBER M24643/4-	TYPE AND SIZE	CONDUCTORS		INSULATION THICKNESS NOMINAL IN	OVERALL DIA MAX IN	INSULATION REISTANCE 1000 FEET (MIN) (MEGO)	CONDUCTOR RESISTANCE PER 1000 FT MAX (OHMS)
		NO.	SIZE AWG				
01UO	LSMCOS-2	2	18(CLASS K)	.023	.460	200	7.15
02UO	LSMCOS-4	4	18(CLASS K)	.023	.510	200	7.15
03UN	LSMCOS-5	5	20(CLASS K)	.015	.390	100	10.60
04UN	LSMCOS-6	6	20(CLASS K)	.015	.480	100	10.60
05UO	LSMCOS-7	7	18(CLASS K)	.023	.595	200	7.15

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPE LSMHOF

MIL-C-24643/7

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR - AWG SIZE 16, CLASS K STRANDING, UNCOATED.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION WHERE REQUIRED TO PROVIDE FREE-STRIPPING INSULATION.
- THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION, NOMINAL WALL THICKNESS 0.020 INCH.
- FOURTH - THE SPECIFIED NUMBER OF CONDUCTORS CABLED TOGETHER IN ONE OR MORE LAYERS.
- FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- SIXTH - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL WALL THICKNESS 0.060 INCH. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/7-	TYPE AND SIZE	CONDUCTORS NO.	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX
01UN	LSMHOF-7	7	.500	500	4.18
02UN	LSMHOF-10	10	.585	500	4.18
03UN	LSMHOF-14	14	.635	500	4.18
04UN	LSMHOF-19	19	.705	500	4.18
05UN	LSMHOF-24	24	.795	500	4.18
06UN	LSMHOF-30	30	.835	500	4.18
07UN	LSMHOF-37	37	.925	500	4.18
08UN	LSMHOF-44	44	1.000	500	4.18
09UN	LSMHOF-61	61	1.175	500	4.18

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LSMMOP

MIL-C-24643/8

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR - AWG SIZE 24, CLASS 0 STRANDING, UNCOATED.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION WHERE REQUIRED TO PROVIDE FREE-STRIPPING INSULATION.
- THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION, NOMINAL WALL THICKNESS 0.020 INCH.
- FOURTH - FIVE CONDUCTORS CABLED TOGETHER.
- FIFTH - A BINDER OF POLYESTER TAPE OR BRAID.
- SIXTH - CROSS-LINKED POLYOLEFIN JACKET.

TABLE I. DETAILS

PART NUMBER	TYPE AND SIZE	CONDUCTORS NO.	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	INSUL COND MIN IN
M24643/8						
-01UN	LSMMOP-5	5	.305	100	23.3	.065

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LSPBTMU

MIL-C-24643/10

## CONSTRUCTION (WATERTIGHT)

- FIRST - ONE COPPER AND ONE CONSTANTAN CONDUCTOR FOR EACH PAIR, UNCOATED. AWG SIZE 22, CLASS K STRANDING.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION, NOMINAL WALL THICKNESS 0.015 INCH.
- FOURTH - EACH PAIR SHALL BE ONE COPPER AND ONE CONSTANTAN CONDUCTOR CABLED WITH A LAY NOT GREATER THAN 3 INCHES.
- FIFTH - THE SPECIFIED NUMBER OF PAIRS SHALL BE CABLED TOGETHER.
- SIXTH - BINDER TAPE.

TABLE I. DETAILS

PART NUMBER M24643/10- UNARMORED	TYPE	SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS) MIN
01UN	LSPBTMU	5	5	.540	100
02UN	LSPBTMU	15	15	.750	100
03UN	LSPBTMU	30	30	.980	100

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LSTTOP

MIL-C-24643/12

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, AWG SIZE 20, CLASS K STRANDING, UNCOATED.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION, NOMINAL WALL THICKNESS 0.020 INCH.
- FOURTH - TWO CONDUCTORS SHALL BE CABLED TOGETHER TO FORM PAIRS.
- FIFTH - THE SPECIFIED NUMBER OF PAIRS SHALL BE CABLED TOGETHER IN ONE OR MORE LAYERS.
- SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/12	TYPE AND SIZE	NUMBER OF PAIRS	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN
-01UN	LSTTOP-3	3	.060	100	10.60	.480
-02UN	LSTTOP-5	5	.060	100	10.60	.590
-03UN	LSTTOP-10	10	.060	100	10.60	.700
-04UN	LSTTOP-15	15	.060	100	10.60	.830

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LSTTRS

MIL-C-24643/13

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. AWG SIZE 20, CLASS B STRANDING.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL WALL THICKNESS 0.020 INCH.
- FOURTH - TWO CONDUCTORS SHALL BE CABLED TOGETHER TO FORM A PAIR.
- FIFTH - BRAIDED SHIELD OF AWG NO.34 OR NO.36 COPPER, UNCOATED OR TIN COATED.
- SIXTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.

TABLE I. DETAILS

PART NUMBER M24643/13- UNARMORED	TYPE AND SIZE	NUMBER OF SHIELDED PAIRS	OVERALL DIA MAX IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX
01UN	LSTTRS-2	2	.680	500	10.5
02UN	LSTTRS-4	4	.740	500	10.5
03UN	LSTTRS-6	6	.880	500	10.5
04UN	LSTTRS-8	8	.990	500	10.5
05UN	LSTTRS-10	10	1.080	500	10.5
06UN	LSTTRS-12	12	1.100	500	10.5
07UN	LSTTRS-16	16	1.190	500	10.5

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TYPE LSSSGU

MIL-C-24643/14

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

FIRST - COPPER CONDUCTOR, UNCOATED.

SECOND - SILICONE RUBBER - GLASS TAPE INSULATION.

THIRD - BINDER ( AT MANUFACTURERS OPTION )

## CONSTRUCTION VARIANT FOR TYPE LSSSGU

FOURTH - CROSS-LINKED POLYOLEFIN JACKET (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/14- UNARMORED	TYPE AND SIZE	COND SIZE AWG	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN
01UN	LSSSGU-50	3(CLASS C)	.040	160	.205	.520	.334
02UN	LSSSGU-75	1(CLASS C)	.040	135	.129	.602	.407
03UN	LSSSGU-100	0(CLASS D)	.050	175	.102	.669	.453



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TYPE LSDSGU

MIL-C-24643/15

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

FIRST - COPPER CONDUCTOR, UNCOATED.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION.  
 THIRD - GLASS BRAID.  
 FOURTH - BRAID COVERING.

SIZES 1/23 TO 100 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

FIRST - COPPER CONDUCTOR, UNCOATED.  
 SECOND - SILICONE RUBBER-GLASS TAPE INSULATION.  
 THIRD - THE TWO CONDUCTORS SHALL BE CABLED TOGETHER WITH  
 A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER.  
 FOURTH - A BINDER.

TABLE I. DETAILS

PART NUMBER M24643/15- UNARMORED	TYPE AND SIZE	COND SIZE AWG	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN	DIA OVER BRAID MAX IN	DIA OVER OUTER INSUL TAPE IN
01UN	LSDSGU-3	16(CLASS B)	.030	500	4.18	.391	.096	.130	---
02UN	LSDSGU-4	14(CLASS B)	.030	500	2.68	.427	.112	.143	---
03UN	LSDSGU-9	10(CLASS B)	.040	500	1.060	.544	.154	.187	---
04UN	LSDSGU-14	9(CLASS B)	.040	500	.8407	.670	.230	.262	---
05UN	LSDSGU-23	7(CLASS B)	.050	500	.5284	.781	.271	.310	.274
06UN	LSDSGU-50	3(CLASS C)	.050	200	.2050	.911	---	---	.334
07UN	LSDSGU-75	1(CLASS C)	.050	175	.1290	1.074	---	---	.407
08UN	LSDSGU-100	0(CLASS D)	.050	160	.1020	1.167	---	---	.453

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TYPE LSTSGU

MIL-C-24643/16

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

## SIZES 3 TO 1/23 INCLUSIVE, EXTRUDED SILICONE RUBBER INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION.  
 THIRD - GLASS BRAID.  
 FOURTH - BRAID COVERING. STANDARD IDENTIFICATION CODE  
 APPLIED BY METHOD 1.

## SIZES 1/23 TO 100 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED.  
 SECOND - SILICONE RUBBER-GLASS TAPE INSULATION.  
 THIRD - THE THREE CONDUCTORS SHALL BE CABLED TOGETHER WITH  
 A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER.  
 FOURTH - A BINDER.  
 FIFTH - THE THREE CONDUCTORS SHALL BE CABLED TOGETHER WITH  
 A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER.  
 SIXTH - BINDER OR COMBINATION BINDER AND BARRIER.  
 SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR  
 THICKNESS). CABLE SURFACE MARKING REQUIRED.

## SIZES 1 23 TO 100 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIFTH - CROSS-LINKED POLYOLEFIN JACKER.

TABLE I. DETAILS

PART NUMBER M24643/16- UNARMORED	TYPE AND SIZE	COND SIZE AWG	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN	DIA OVER BRAID MAX IN	DIA OVER OUTER INSUL TAPE IN
01UN	LSTSGU-3	16(CLASS B)	.030	500	4.18	.411	.096	.130	---
02UN	LSTSGU-4	14(CLASS B)	.030	500	2.68	.449	.112	.143	---
03UN	LSTSGU-9	10(CLASS B)	.040	500	1.06	.575	.154	.187	---
04UN	LSTSGU-14	9(CLASS B)	.040	500	.8407	.718	.230	.262	---
05UN	LSTSGU-23	7(CLASS B)	.050	500	.5284	.812	.271	.310	.251
06UN	LSTSGU-50	3(CLASS C)	.050	200	.2050	.969	---	---	.334
07UN	LSTSGU-75	1(CLASS C)	.050	175	.1290	1.134	---	---	.407
08UN	LSTSGU-100	0(CLASS D)	.060	160	.1020	1.266	---	---	.453

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TYPE LSFSGU

MIL-C-24643/17

CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

SIZES 3 TO 1/23 INCLUSIVE, EXTRUDED SILICONE RUBBER INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED, CLASS B STRANDING.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION.  
 THIRD - GLASS BRAID.  
 FOURTH - BRAID COVERING. STANDARD IDENTIFICATION CODE  
 APPLIED BY METHOD 1.

SIZES 1/23 TO 100 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIRST - COPPER CONDUCTOR, UNCOATED, CLASS C AND D STRANDING  
 SECOND - SILICONE RUBBER-GLASS TAPE INSULATION.  
 THIRD - THE FOUR CONDUCTORS SHALL BE CABLED TOGETHER.  
 FOURTH - A BINDER.

SIZES 3 TO 1/23 INCLUSIVE, EXTRUDED SILICONE RUBBER INSULATION

- FIFTH - THE FOUR CONDUCTORS SHALL BE CABLED TOGETHER WITH A  
 LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER.  
 SIXTH - BINDER OR COMBINATION BINDER AND BARRIER.  
 SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR  
 THICKNESS). CABLE SURFACE MARKING REQUIRED.

SIZES 1/23 TO 200 INCLUSIVE, SILICONE RUBBER-GLASS TAPE INSULATION

- FIFTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR  
 THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/17- UNARMORED	TYPE AND SIZE	COND SIZE AWG	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN	DIA OVER BRAID MAX IN	DIA OVER OUTER INSUL TAPE IN
01UN	LSFSGU-3	16(CLASS B)	.030	500	4.18	.447	.096	.130	---
02UN	LSFSGU-4	14(CLASS B)	.040	500	2.68	.513	.112	.143	---
03UN	LSFSGU-9	10(CLASS B)	.040	500	1.06	.630	.154	.187	---
04UN	LSFSGU-23	7(CLASS B)	.050	500	.5284	.890	.271	.310	.251
05UN	LSFSGU-50	3(CLASS C)	.050	200	.2050	1.050	---	---	.334
06UN	LSFSGU-75	1(CLASS C)	.050	175	.1290	1.240	---	---	.407
07UN	LSFSGU-100	0(CLASS D)	.060	160	.1020	1.358	---	---	.453

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TYPE LSMSCU

MIL-C-24643/18

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - COPPER CONDUCTOR, UNCOATED, AWG SIZE 18, CLASS B STRANDING.
- SECOND - EXTRUDED SILICONE RUBBER INSULATION. NOMINAL THICKNESS OF 0.018 INCH.
- THIRD - BRASS BRAID.
- FOURTH - BRAID COVERING. DIAMETER OVER BRAID COVERING 0.113 INCH MAXIMUM.
- FIFTH - THE REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER, EXCEPT THE LAY OF THE TWO OUTER LAYERS FOR SIZES 44, 61 AND 91 SHALL NOT EXCEED 18 TIMES THE PITCH DIAMETER OF THE LAYER.
- SIXTH - BINDER OR COMBINATION BINDER AND BARRIER.
- SEVENTH - CROSS-LINKED POLYOLEFIN JACKET (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/18- UNARMORED	TYPE AND SIZE	NO OF COND	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN
01UN	LSMSCU-7	7	.040	500	6.44	.484
02UN	LSMSCU-10	10	.050	500	6.44	.622
03UN	LSMSCU-14	14	.050	500	6.44	.668
04UN	LSMSCU-19	19	.050	500	6.44	.738
05UN	LSMSCU-24	24	.050	500	6.44	.855
06UN	LSMSCU-30	30	.050	500	6.44	.901
07UN	LSMSCU-37	37	.060	500	6.44	1.002
08UN	LSMSCU-44	44	.060	500	6.44	1.114
09UN	LSMSCU-61	61	.060	500	6.44	1.250
10UN	LSMSCU-91	91	.060	500	6.44	1.480

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TYPE LS7SGU

MIL-C-24643/20

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - COPPER CONDUCTOR, UNCOATED, CLASS B STRANDING.
- SECOND - EXTRUDED SILICONE RUBBER INSULATION.
- THIRD - GLASS BRAID.
- FOURTH - BRAID COVERING.
- FIFTH - THE SEVEN CONDUCTORS SHALL BE CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER.
- SIXTH - BINDER OR COMBINATION BINDER AND BARRIER.

## CONSTRUCTION VARIANT FOR TYPE LS7SGU

- EIGHTH - BRAIDED METAL ARMOR AND PAINT.

TABLE I. DETAILS

PART NUMBER M24643/20- UNARMORED	TYPE AND SIZE	COND SIZE AWG	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN	DIA OVER BRAID MAX IN
01UN	LS7SGU-3	16(CLASS B)	.040	500	4.18	.545	.096	.130
02UN	LS7SGU-4	14(CLASS B)	.040	500	2.68	.595	.112	.143

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPES LSTCJU AND LSTCTU

MIL-C-24643/21

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - ONE IRON AND ONE CONSTANTAN CONDUCTOR IN TYPE LSTCJU,  
FOR TYPE J THERMOCOUPLE IN ACCORDANCE WITH ANSI MC96.1:  
ONE COPPER AND ONE CONSTANTAN IN TYPE LSTCTU, FOR  
TYPE T THERMOCOUPLE IN ACCORDANCE WITH ANSI MC96.1.  
ALL CONDUCTORS UNCOATED.
- SECOND - EXTRUDED SILICONE RUBBER INSULATION.
- THIRD - GLASS BRAID.
- FOURTH - BRAID COVERING.
- FIFTH - THE TWO CONDUCTORS SHALL BE CABLED TOGETHER WITH  
A LAY OF 16 TO 24 TIMES THE PITCH DIAMETER.
- SIXTH - BINDER OR COMBINATION BINDER AND BARRIER.
- SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL THICKNESS  
0.050 INCH.
- EIGHTH - BRAIDED METAL ARMOR AND PAINT.

TABLE I. DETAILS

PART NUMBER M24643/21- UNARMORED	TYPE AND SIZE	COND SIZE AWG	COLD BENDING MANDREL MAX DIA IN	INSUL RES (MEGOHMS) MIN	OVERALL DIA MIN IN	OVERALL DIA MAX IN	DIA OVER INSUL IN	DIA OVER BRAID MAX IN
01UN	LSTCJU-4	14(CLASS B)	6	500	.400	.430	.105	.140
02UN	LSTCTU-4	14(CLASS B)	6	500	.400	.430	.105	.140

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LSTTSU

MIL-C-24643/23

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - COPPER CONDUCTOR, UNCOATED, AWG SIZE 22, CLASS K STRANDING,
- SECOND - EXTRUDED SILICONE RUBBER INSULATION COLORED.  
MINIMUM THICKNESS 0.020 INCH. DIAMETER OVER  
INSULATED CONDUCTOR SHALL BE 0.076 INCH.
- THIRD - GLOSS BRAID.
- FOURTH - BRAID COVERING.
- FIFTH - THE SPECIFIED NUMBER OF PAIRS CABLED TOGETHER
- SIXTH - BINDER OR COMBINATION BINDER AND BARRIER.

## CONSTRUCTION VARIANT FOR TYPE LSTTSU

- SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I  
FOR THICKNESS).

TABLE I. DETAILS

PART NUMBER M24643/23- UNARMORED	TYPE AND SIZE	NUMBER OF PAIRS	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN
01UN	LSTTSU-1-1/2	1-1/2	.050	100	16.9	.330
02UN	LSTTSU-3	3	.050	100	16.9	.450
03UN	LSTTSU-5	5	.050	100	16.9	.540
04UN	LSTTSU-10	10	.062	100	16.9	.675
05UN	LSTTSU-15	15	.062	100	16.9	.800
06UN	LSTTSU-20	20	.062	100	16.9	.870
07UN	LSTTSU-30	30	.075	100	16.9	1.080
08UN	LSTTSU-40	40	.075	100	16.9	1.200
09UN	LSTTSU-50	50	.075	100	16.9	1.400
10UN	LSTTSU-60	60	.075	100	16.9	1.450

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPES LSTCJX, LSTCKX AND LSTCTX

MIL-C-24643/24

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - STRANDED CONDUCTOR, UNCOATED.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION.  
 THIRD - GLASS BRAID, COLOR IDENTIFIED.  
 FOURTH - BRAID COVERING. TWO CONDUCTORS CABLED TO FORM A PAIR.  
 FIFTH - THE SPECIFIED NUMBER OF PAIRS (SEE TABLE I) CABLED TOGETHER WITH A LAY NOT GREATER THAN 10 INCHES.  
 SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SEVENTH - SILICONE RUBBER JACKET.  
 EIGHTH - BRAIDED METAL ARMOR.  
 NINTH - PAINT.

TABLE I. DETAILS

PART NUMBER M24643/24	TYPE AND SIZE	NO. OF PAIRS	NO OF STRDS AND STRD DIA IN	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	OVERALL DIA MAX IN	DIA OVER INSUL MIN IN	DIA OVER BRAID MAX IN
-01AN	LSTCJX-3	3	7/0.0201	.040	500	0.742	.100	.125
-02AN	LSTCJX-7	7	7/0.0201	.050	500	.983	.100	.125
-03AN	LSTCJX-12	12	7/0.0201	.050	500	1.269	.100	.125
-04AN	LSTCKX-1	1	7/0.0201	.030	500	.456	.100	.125
-05AN	LSTCKX-3	3	7/0.0201	.040	500	.742	.100	.125
-06AN	LSTCKX-7	7	7/0.0201	.050	500	.983	.100	.125
-07AN	LSTCKX-12	12	7/0.0201	.050	500	1.269	.100	.125
-08AN	LSTCTX-1	1	7/0.0113	.030	500	.350	.065	.085
-09AN	LSTCTX-3	3	7/0.0113	.030	500	.552	.065	.085
-10AN	LSTCTX-7	7	7/0.0113	.040	500	.731	.065	.085
-11AN	LSTCTX-12	12	7/0.0113	.050	500	.964	.065	.085



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LSPI

MIL-C-24643/25

## CONSTRUCTION (NON-WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - COPPER CONDUCTOR, NICKEL COATED, AWG 18, CLASS B, STRANDING.
- SECOND - EXTRUDED SILICONE RUBBER INSULATION. NOMINAL THICKNESS 0.018 INCH.
- THIRD - GLASS BRAID.
- FOURTH - BRAID COVERING. TWO CONDUCTORS CABLED TOGETHER WITH A LAY NOT GREATER THAN 2-1/4 INCHES TO FORM A PAIR.
- FIFTH - BRAIDED SHIELD OF AWG NO. 34 OR NO. 36 UNCOATED COPPER OVER EACH PAIR.
- SIXTH - SHIELD INSULATION OVER EACH BRAIDED SHIELD, CONSISTING OF POLYETHYLENE TEREPHTHALATE FILM, TYPE G IN ACCORDANCE WITH MIL-I-631.
- SEVENTH - A GLASS BRAID OVER EACH SHIELD INSULATION.
- EIGHTH - THE SPECIFIED NUMBER OF PAIRS CABLED TOGETHER.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- TENTH - SILICONE RUBBER JACKET.
- ELEVENTH - BRAIDED METAL ARMOR.
- TWELFTH - PAINT.

TABLE I. DETAILS

PART NUMBER M24643/25	TYPE AND SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS MIN	COND RES - OHMS/1000 AT 25°C MAX
-01UN	LSPI-3	3	.685	500	6.79
-02UN	LSPI-7	7	.900	500	6.79
-03UN	LSPI-12	12	1.155	500	6.79

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES LSDPS, LSTPS AND LS7PS

MIL-C-24643/26

## CONSTRUCTION (WATERTIGHT WITH CIRCUIT INTEGRITY)

- FIRST - COPPER CONDUCTOR, NICKEL COATED.  
 SECOND - EXTRUDED SILICONE RUBBER INSULATION.  
 THIRD - GLASS BRAID.  
 FOURTH - BRAID COVERING. THE SPECIFIED NUMBER OF CONDUCTORS  
 CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.  
 SIXTH - SILICONE RUBBER JACKET.  
 SEVENTH - BRAIDED METAL ARMOR.  
 EIGHTH - PAINT.

TABLE I. DETAILS

PART NUMBER M24643/26-	TYPE AND SIZE	COND SIZE AWG	CABLE JACKET THICKNESS IN	INSUL RES (MEGOHMS) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN	DIA OVER BRAID MAX IN	NO. OF COND
01AN	LSDPS-3	16(CLASS B)	.030	500	4.44	.455	.100	.125	2
02AN	LSDPS-4	14(CLASS B)	.030	500	2.78	.489	.116	.141	2
03AN	LSDPS-6	12(CLASS B)	.040	500	1.75	.585	.143	.170	2
04AN	LSDPS-9	10(CLASS B)	.040	500	1.102	.628	.166	.193	2
05AN	LSDPS-14	9(CLASS B)	.050	500	.8742	.730	.200	.230	2
06AN	LSTPS-3	16(CLASS B)	.030	500	4.44	.475	.100	.125	3
07AN	LSTPS-4	14(CLASS B)	.040	500	2.78	.553	.116	.141	3
08AN	LSTPS-6	12(CLASS B)	.040	500	1.75	.620	.143	.170	3
09AN	LSTPS-9	10(CLASS B)	.040	500	1.102	.657	.166	.193	3
10AN	LSTPS-14	9(CLASS B)	.050	500	0.8742	.751	.200	.230	3
11AN	LSTPS-23	7(CLASS B)	.050	500	.5495	.866	.257	.291	3
12AN	LSTPS-30	5(CLASS C)	.060	500	.346	.989	.310	.348	3
14AN	LS7PS-6	7(CLASS B)	.050	500	1.75	.775	.143	.170	7

## MIL-STD-242J(NAVY), PART 10

CABLES, ELECTRICAL, 600 VOLTS, TYPE LS2AU

MIL-C-24643/27

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, ASTM B 286, SIZE 22-7.  
MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS  
0.024 INCH.
- FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR, WITH  
NOMINAL LAY OF 1-1/2 INCHES.
- FIFTH - FORTY PAIRS CABLED TOGETHER, WITH A LAY NOT GREATER  
THAN 16 TIMES THE OVERALL DIAMETER OF THE LAYER.
- SIXTH - BINDER TAPE, APPLIED HELICALLY WITH OVERLAP.
- SEVENTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.

## CONSTRUCTION VARIANT FOR TYPE LS2AU.

- EIGHTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- NINTH - CROSS-LINKED POLYOLIN JACKET. (NOMINAL THICKNESS  
0.060 INCH). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER	TYPE AND SIZE	NUMBER OF PAIRS	OVERALL DIAMETER		INSUL RES (MEGOHMS MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX
			MIN IN	MAX IN		
M24643/27						
-01U0	LS2AU-40	40	1.320	1.370	5000	17.71

MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS1S50MU

MIL-C-24643/28

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7, TIN COATED. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION WHITE. NOMINAL THICKNESS 0.030 INCH.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36 TIN COATED COPPER.
- FIFTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED. NOMINAL DIAMETER OVER JACKETED CONDUCTOR 0.131 INCH.
- SIXTH - THE REQUIRED NUMBER OF SINGLES CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER.
- SEVENTH - BINDER TAPE, APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LS1S50MU

- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. (NOMINAL THICKNESS 0.050 INCH). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/28- UNARMORED	TYPE AND SIZE	NUMBER OF COND	OVERALL DIAMETER		INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX
			MIN IN	MAX IN		
01UN	LS1S50MU-16	16	0.760	0.825	1.0	17.54
02UN	LS1S50MU-20	20	.835	.905	1.0	17.54
03UN	LS1S50MU-40	40	1.095	1.185	1.0	17.54

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LSMU

MIL-C-24643/29

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 20-7, TIN COATED. MAXIMUM DIAMETER 0.039 INCH.  
 SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.  
 THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION, WHITE. MINIMUM THICKNESS OF 0.015 INCH.  
 FOURTH - THE REQUIRED NUMBER OF SINGLES CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSMU.

- SIXTH - CROSS-LINKED POLYOLEFIN JACKET. THICKNESS 0.030 INCH MINIMUM. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/29- UNARMORED	TYPE AND SIZE	NUMBER OF COND	OVERALL DIAMETER		INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 0 FT 25° MAX
			MIN IN	MAX IN		
01UN	LSMU-14	14	0.365	0.400	500	10.93

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS1SWU

MIL-C-24643/30

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7, UNCOATED. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION, NATURAL. NOMINAL THICKNESS OF 0.048 INCH.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36 UNCOATED COPPER.
- FIFTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- SIXTH - THE REQUIRED NUMBER OF SINGLES CABLED TOGETHER.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

TABLE I. DETAILS

PART NUMBER M24643/30- UNARMORED	TYPE AND SIZE	NUMBER OF COND	OVERALL DIAMETER MAX IN	INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS MIN IN
01UN	LS1SWU-2	2	0.455	500	16.9	.030
02UN	LS1SWU-14	14	.870	500	16.9	.040
03UN	LS1SWU-20	20	1.030	500	16.9	.040
04UN	LS1SWU-30	30	1.200	500	16.9	.050

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS2SU

MIL-C-24643/31

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7, UNCOATED. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.013 INCH.
- FOURTH - TWO CONDUCTORS CABLED TOGETHER.
- FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR NO. 36 TIN COATED COPPER STRANDS.
- SEVENTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- EIGHTH - THE REQUIRED NUMBER OF PAIRS (SEE TABLE I) CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LS2SU

- TENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/31- UNARMORED	TYPE AND SIZE	NUMBER OF COND	OVERALL DIAMETER		INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN
			MIN IN	MAX IN			
01UN	LS2SU-3	3	0.480	0.520	6.0	17.37	0.040
02UN	LS2SU-7	7	.610	.660			
03UN	LS2SU-10	10	.770	.830			
04UN	LS2SU-14	14	.860	.930			0.050
05UN	LS2SU-19	19	.970	1.040			
06UN	LS2SU-24	24	1.120	1.210			
07UN	LS2SU-30	30	1.190	1.280			
08UN	LS2SU-37	37	1.290	1.380			
09UN	LS2SU-44	44	1.460	1.550			

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS2SWAU

MIL-C-24643/32

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7, UNCOATED. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.013 INCH.
- FOURTH - TWO CONDUCTORS, ONE BLACK AND ONE WHITE, CABLED TOGETHER.
- FIFTH - BINDER TAPE OVER EACH PAIR, AT MANUFACTURER'S OPTION.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR NO. 36 TIN COATED COPPER.
- SEVENTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- EIGHTH - THE REQUIRED NUMBER OF PAIRS (SEE TABLE I) CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER. A FIRM, WELL ROUNDED ASSEMBLY.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LS2SWAU

- TENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/32- UNARMORED	TYPE AND SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAX IN	INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN
01UN	LS2SWAU-3	3	0.520	500	17.37	0.040
02UN	LS2SWAU-7	7	.660	500	17.37	0.040
03UN	LS2SWAU-10	10	.830	500	17.37	0.040
04UN	LS2SWAU-14	14	.930	500	17.37	0.050
05UN	LS2SWAU-19	19	1.040	500	17.37	0.050
06UN	LS2SWAU-24	24	1.210	500	17.37	0.050
07UN	LS2SWAU-30	30	1.280	500	17.37	0.050
08UN	LS2SWAU-37	37	1.380	500	17.37	0.050
09UN	LS2SWAU-44	44	1.550	500	17.37	0.050



## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS2SWU

MIL-C-24643/33

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, AWG NO. 18, CLASS B STRANDING, (7 BY 0.0152 INCH) TIN COATED. MAXIMUM DIAMETER 0.050 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.023 INCH.
- FOURTH - TWO CONDUCTORS, ONE BLACK AND ONE WHITE, CABLED TOGETHER WITH NOMINAL LAY OF 3 INCHES TO FORM EACH PAIR. FOR LS2SWU-1.
- FIFTH - BINDER TAPE OVER EACH PAIR, AT MANUFACTURER'S OPTION.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR NO. 36 TIN COATED COPPER.
- SEVENTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- DIAMETER OVER COMPLETED PAIR.
- EIGHTH - THE REQUIRED NUMBER OF PAIRS (SEE TABLE I) CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LS2SWU

- TENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/33- UNARMORED	TYPE AND SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAX IN	DIA OVR COMP PR NOMINAL IN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN
01UN	LS2SWU-1	1	0.255	0.213	7.05	0.012
02UN	LS2SWU-3	3	.710	.213	7.05	0.060
03UN	LS2SWU-7	7	.910	.213	7.05	0.060
04UN	LS2SWU-12	12	1.200	.213	7.05	0.070
05UN	LS2SWU-19	19	1.380	.213	7.05	0.080
06UN	LS2SWU-24	24	1.590	.213	7.05	0.080
07UN	LS2SWU-30	30	1.760	.213	7.05	0.080

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS3SU

MIL-C-24643/35

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, AWG NO. 18, (7 BY 0.0152 INCH), UNCOATED. MAXIMUM DIAMETER 0.050 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.023 INCH.
- FOURTH - THREE CONDUCTORS, CABLED TOGETHER.
- FIFTH - BINDER TAPE OVER EACH TRIAD, AT MANUFACTURER'S OPTION.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR NO. 36 UNCOATED COPPER. BRAID ANGLE 30 TO 35 DEGREES; MINIMUM COVERAGE OF 85 PERCENT.
- SEVENTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- EIGHTH - THE REQUIRED NUMBER OF TRIADS CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LS3SU

- TENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/35- UNARMORED	TYPE AND SIZE	NUMBER OF TRIADS	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN
01UN	LS3SU-3	3	0.700	6.0	7.06	0.040
02UN	LS3SU-7	7	.910	6.0	7.06	0.050
03UN	LS3SU-10	10	1.190	6.03	7.06	0.050
04UN	LS3SU-14	14	1.290	6.03	7.06	0.050
05UN	LS3SU-19	19	1.430	6.03	7.06	0.050
06UN	LS3SU-24	24	1.670	6.03	7.06	0.060

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS3SWU

MIL-C-24643/36

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, AWG NO. 18, CLASS B STRANDING, (7 BY 0.0152 INCH), UNCOATED. MAXIMUM DIAMETER 0.050 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.023 INCH.
- FOURTH - THREE CONDUCTORS, ONE BLACK, ONE WHITE AND ONE RED, CABLED TOGETHER.
- FIFTH - BINDER TAPE OVER EACH TRIAD, AT MANUFACTURER'S OPTION.
- SIXTH - BRAIDED SHIELD OF AWG NO. 34 OR NO. 36 UNCOATED COPPER. BRAID ANGLE 30 TO 35 DEGREES; MINIMUM COVERAGE OF 85 PERCENT.
- SEVENTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- EIGHTH - THE REQUIRED NUMBER OF TRIADS CABLED TOGETHER WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER.
- NINTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LS3SWU

- TENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/36- UNARMORED	TYPE AND SIZE	NUMBER OF TRIADS	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN
01UN	LS3SWU-3	3	0.655	6.0	6.6	0.040
02UN	LS3SWU-7	7	.940	6.0	6.6	0.040
03UN	LS3SWU-10	10	1.180	6.0	6.6	0.050
04UN	LS3SWU-14	14	1.280	6.0	6.6	0.050
05UN	LS3SWU-19	19	1.450	6.0	6.6	0.050
06UN	LS3SWU-24	24	1.760	6.0	6.6	0.050

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS3U

MIL-C-24643/37

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, AWG NO. 18, CLASS B STRANDING, (7 BY 0.0152 INCH), UNCOATED. MAXIMUM DIAMETER 0.050 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.023 INCH.
- FOURTH - ONE BLACK, ONE WHITE AND ONE RED CONDUCTOR CABLED TOGETHER.
- FIFTH - MARKER BRAID ON EACH TRIAD.
- SIXTH - THE SPECIFIED NUMBER OF TRIADS CABLED TOGETHER.
- SEVENTH - BINDER TAPE OF POLYESTER, TYPE G IN ACCORDANCE WITH MIL-I-631, APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/37- UNARMORED	TYPE AND SIZE	NUMBER OF TRIADS	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN
01UN	LS3U-3	3	0.620	500	6.64	0.040
02UN	LS3U-7	7	.810	500	6.64	0.040
03UN	LS2U-10	10	1.090	500	6.64	0.050

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPE LSECM

MIL-C-24643/38

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 20-7, TIN-COATED. MAXIMUM DIAMETER 0.039 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.020 INCH.
- FOURTH - TWO CONDUCTORS, ONE BLACK, ONE WHITE, CABLED TOGETHER.
- FIFTH - BINDER TAPE OVER EACH PAIR, AT MANUFACTURER'S OPTION.
- SIXTH - BRAIDED SHIELD OF AWG NO.34 OR NO.36 TIN COATED COPPER.
- SEVENTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.

## GROUPS OF 7 (8 GROUPS)

- FIRST - COPPER CONDUCTOR, AWG NO. 18, CLASS B STRANDING, (7 BY 0.0152 INCH), TIN COATED. MAXIMUM DIAMETER 0.050 INCH.
- SECOND - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS 0.008 INCH. COLORED INSULATION- FIVE BLACK AND TWO WHITE CONDUCTORS FOR EACH GROUP.
- THIRD - SEVEN CONDUCTORS, FIVE BLACK AND TWO WHITE, WITH THE TWO WHITE CONDUCTORS ADJACENT IN THE LAYER OF SIX, CABLED WITH A LAY NOT GREATER THAN 2 INCHES TO FORM EACH GROUP.
- FOURTH - TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED. STANDARD IDENTIFICATION CODE APPLIED BY METHOD 2, ON INNER TAPE.

## ASSEMBLY:

- FIRST - FIVE PAIRS CABLED TO FORM A CORE. THREE PAIRS AND EIGHT GROUPS OF SEVEN CABLED OVER THE CORE, WITH A LAY NOT GREATER THAN 24 TIMES THE PITCH DIAMETER OF THE LAYER. FILLERS SHALL BE EMPLOYED TO FORM A WELL-ROUNDED ASSEMBLY.
- SECOND - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSECM

- THIRD - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL THICKNESS 0.100 INCH. CABLE SURFACE MARKING REQUIRED.

## BASIC ELECTRICAL:

CONDUCTOR RESISTANCE - OHMS/1000 FEET, AT 25°C MAXIMUM		
ASTM B 286, SIZE 20-7		11.03
AWG NO. 18 (CLASS B)		7.05
INSULATION RESISTANCE		
MEGOHMS 1000 FEET, MINIMUM		500

## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS1S75MU

MIL-C-24643/39

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7, TIN COATED. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.070 INCH.
- FOURTH - BRAIDED SHIELD OF AWG NO. 34, TIN COATED COPPER.
- FIFTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- SIXTH - THE EIGHT SINGLES CABLED WITH A LAY NOT GREATER THAN 8 INCHES AROUND A CENTER FILLER.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. MINIMUM THICKNESS 0.050 INCH. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/39- UNARMORED	TYPE AND SIZE	NUMBER OF CONDCT	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	DIA OVER COMP CONDCT (INCH) (MAX)
01UN	LS1S75MU-8	8	1.030	500	17.37	0.228

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS1SMU

MIL-C-24643/40

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7, TIN COATED. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.030 INCH.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36, TIN COATED COPPER.
- FIFTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- SIXTH - THE REQUIRED NUMBER OF SINGLES CABLED TOGETHER.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. MINIMUM THICKNESS 0.050 INCH. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/40- UNARMORED	TYPE AND SIZE	NUMBER OF CONDTRS	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	DIA OVER COMP CONDTRS NOMINAL (IN)
01UN	LS1SMU-5	5	0.500	500	17.37	0.131

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS1SAU

MIL-C-24643/41

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, IN ACCORDANCE WITH ASTM B 286, SIZE 20-7, UNCOATED. MAXIMUM DIAMETER 0.039 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.015 INCH.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36, UNCOATED COPPER.
- FIFTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- DIAMETER OVER COMPLETED CONDUCTORS 0.110 INCH NOMINAL.
- SIXTH - THE REQUIRED NUMBER OF SINGLES CABLED TOGETHER.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. MINIMUM THICKNESS 0.050 INCH. CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/41- UNARMORED	TYPE AND SIZE	NUMBER OF CNDTRS	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	DIA OVER COMP CNDTRS NOMINAL (IN)
01UN	LS1SAU-44	44	0.990	500	10.71	0.131



## MIL-STD-242J(NAVY), PART 10

## CABLE, ELECTRICAL, TYPE LS1SU

MIL-C-24643/42

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, IN ACCORDANCE WITH ASTM B 286.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. MINIMUM WALL THICKNESS OF 17 MILS.
- FOURTH - BRAIDED SHIELD OF AWG NO. 36, UNCOATED COPPER.
- FIFTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- SIXTH - THE REQUIRED NUMBER OF SINGLES CABLED WITH A LAY NOT GREATER THAN 15 TIMES THE PITCH DIAMETER OF THE LAYER.
- SEVENTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/42- UNARMORED	TYPE AND SIZE	CONDUCTOR SIZE AWG NO.	OVERALL DIAMETER MAX IN	INSUL RES MEG/ 1000 FT MIN	CNDTR RES PER 1000 FT 25°MAX	DIA OVER COMP CNDTRS NOMINAL (IN)	CABLE JACKET THICKNESS MIN (INCH)
01UN	LS1SU-36	18 20-7	0.985	500	7.05 10.93	0.127 .115	0.060
02UN	LS1SU-60	20-7	1.310	500	10.93	.115	0.080

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS, TYPES LS2SJ, LS3SJ, AND LS4SJ

MIL-C-24643/43

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, IN ACCORDANCE WITH ASTM B 286.  
 SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.  
 THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION.  
 FOURTH - TWO, THREE OR FOUR CONDUCTORS, AS REQUIRED, SHALL BE CABLED TOGETHER.  
 FIFTH - BRAIDED SHIELD OF TIN COATED COPPER STRANDS AWG NO. 30, OR SMALLER.  
 SIXTH - BINDER TAPE OF POLYESTER, TYPE G IN ACCORDANCE WITH MIL-I-631, APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSSJ

SEVENTH - CROSS-LINKED POLYOLEFIN JACKET WITH CABLE SURFACE MARKING.

TABLE I. DETAILS

PART NUMBER M24643/43- UNARMORED	TYPE AND SIZE	COND NO	COND SIZE		LAY OF COND (MAX) IN	INSUL RES (MEG) MIN	COND RES OHMS 25°C MAX	OVERALL DIA MAX IN	DIA OVER INSUL IN
			ASTM B 286	ASTM B 8					
01UO	LSSJ-22	2	22-19		1-1/2	500	16.54	.203	.067
02UO	LSSJ-20	2	20-19		1-1/2	500	10.16	.220	.073
03UO	LSSJ-18	2	18-19		1-1/2	500	6.47	.246	.084
04UO	LSSJ-16	2	16-19		2-1/2	500	5.02	.265	.091
05UO	LSSJ-14	2	14-19		2-1/2	500	3.17	.302	.105
06UO	LSSJ-12	2		12 (CLASS B)	3	500	1.68	.400	.145
07UO	LSSJ-11	2		10 (CLASS B)	3	500	1.060	.445	.160
08UO	LSSJ-9	2		9 (CLASS B)	4	500	.8407	.530	.200
09UC	LSSJ-7	2		7 (CLASS B)	4	500	.5284	.605	.235
10UO	LSSJ-22	3	22-19		1-1/2	500	16.54	.217	.067
11UO	LSSJ-20	3	20-19		1-1/2	500	10.16	.234	.073
12UO	LSSJ-18	3	18-19		1-1/2	500	6.47	.264	.084
13UO	LSSJ-16	3	16-19		2-1/2	500	5.02	.285	.091
14UO	LSSJ-14	3	14-19		2-1/2	500	3.17	.325	.105
15UO	LSSJ-12	3		12 (CLASS B)	3	500	1.68	.440	.145
16UO	LSSJ-9	3		9 (CLASS B)	4	500	.8407	.600	.200
17UO	LSSJ-20	4	20-19		1-1/2	500	10.16	.280	.073
18UO	LSSJ-16	4	16-19		2-1/2	500	5.02	.325	.091
19UO	LSSJ-14	4	14-19		3	500	3.17	.370	.105

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LS2U

MIL-C-24643/45

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, IN ACCORDANCE WITH ASTM B 286, SIZE 26-7. MAXIMUM DIAMETER 0.020 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS OF 0.015 INCH.
- FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR, WITH NOMINAL LAY OF 1-1/2 INCHES.
- FIFTH - THE SPECIFIED NUMBER OF PAIRS CABLED TOGETHER.
- SIXTH - BINDER TAPE OF POLYESTER, TYPE G IN ACCORDANCE WITH MIL-I-631.
- SEVENTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.
- EIGHTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/45- UNARMORED	TYPE AND SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAX IN	INSUL RES (MEGOHMS) MIN	CONDUCTOR RESISTANCE PER 1000 FT 25°MAX	CABLE JACKET THICKNESS MIN IN
01UO	LS2U-10	10	0.480	500	45.19	.050
02UO	LS2U-15	15	.560			
03UO	LS2U-19	19	.580			
04UO	LS2U-30	30	.700			
05UO	LS2U-45	45	.870			
06UO	LS2U-60	60	.960			.065

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 600 VOLTS TYPE LS2WAU

MIL-C-24643/46

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, IN ACCORDANCE WITH ASTM B 286, SIZE 22-7. MAXIMUM DIAMETER 0.033 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS 0.024 INCH.
- FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR.
- FIFTH - FORTY PAIRS CABLED TOGETHER.
- SIXTH - BINDER TAPE, APPLIED HELICALLY WITH OVERLAP, AT MANUFACTURER'S OPTION.
- SEVENTH - BRAIDED SHIELD OF AWG NO. 34 TIN COATED COPPER.
- EIGHTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- NINTH - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL THICKNESS 0.060 INCH.

TABLE I. DETAILS

PART NUMBER M24643/46- UNARMORED	TYPE	SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS) MIN	CONDTR RES OHMS/1000 FT AT 25°C MAX
01UN	LS2WAU	40	40	1.370	5000	17.71

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, TWO CONDUCTOR, TYPE LSDNW

MIL-C-24643/48

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED.
- SECOND - SEPARATOR (OPAQUE WHITE) MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION, COLORED BLACK
- FOURTH - TWO CONDUCTORS CABLED TOGETHER WITH A LAY.
- FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSDNW

- SIXTH - CROSS-LINKED POLYOLEFIN JACKET.

TABLE I. DETAILS

PART NUMBER M24643/48 UNARMORED	TYPE AND SIZE	AWG CONDUCTOR SIZE	OVERALL DIAMETER MAX IN	INSUL THICKNESS NOMINAL IN	CNDTR RES PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN	INSUL RES 1000/FT MIN MEG
01UN	LSDNW-3	16(CLASS B)	0.390	0.030	4.44	.040	6000
02UN	LSDNW-4	14(CLASS B)	.430	.030	2.78	.040	5000
03UN	LSDNW-9	10(CLASS B)	.545	.030	1.102	.040	3800
04UN	LSDNW-14	9(CLASS B)	.610	.045	0.8742	.040	4400
05UN	LSDNW-23	7(CLASS B)	.690	.045	.5495	.045	3700
06UN	LSDNW-50	3(CLASS C)	.910	.045	.217	.050	2600
07UN	LSDNW-75	1(CLASS C)	1.080	.055	.137	.055	2600
08UN	LSDNW-100	0(CLASS D)	1.170	.055	.108	.055	2400

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, THREE CONDUCTOR, TYPE LSTNW

MIL-C-24643/49

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED.  
 SECOND - SEPARATOR (OPAQUE WHITE) MAY BE USED AT MANUFACTURER'S OPTION.  
 THIRD - CROSS-LINKED POLYETHYLENE INSULATION, COLORED BLACK  
 FOURTH - THREE CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSTNW

- SIXTH - CROSS-LINKED POLYOLEFIN JACKET.

TABLE I. DETAILS

PART NUMBER M24643/49 UNARMORED	TYPE AND SIZE	AWG CONDUCTOR SIZE	OVERALL DIAMETER MAX IN	INSUL THICKNESS NOMINAL IN	CNDTR RES PER 1000 FT 25°MAX	CABLE JACKET THICKNESS NOM IN	INSUL RES 1000/FT MIN MEG
01UN	LSTNW-3	16(CLASS B)	0.411	0.030	4.44	.040	6000
02UN	LSTNW-4	14(CLASS B)	.449	.030	2.78	.040	5000
03UN	LSTNW-9	10(CLASS B)	.625	.030	1.102	.050	3800
04UN	LSTNW-14	9(CLASS B)	.670	.045	0.8742	.050	4400
05UN	LSTNW-23	7(CLASS B)	.760	.045	.5495	.055	3700
06UN	LSTNW-50	3(CLASS C)	.969	.045	.217	.060	2600
07UN	LSTNW-75	1(CLASS C)	1.134	.055	.137	.070	2600
08UN	LSTNW-100	0(CLASS D)	1.266	.055	.108	.075	2400

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 1000 VOLTS, MULTICONDUCTOR, TYPE LSMNW

MIL-C-24643/51

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. AWG SIZE 18, CLASS B STRANDED.  
 SECOND - SEPARATOR (OPAQUE WHITE) MAY BE USED AT MANUFACTURER'S OPTION.  
 THIRD - CROSS-LINKED POLYETHYLENE INSULATION, COLORED BLACK. 0.020 INCH NOMINAL THICKNESS.  
 FOURTH - THE REQUIRED NUMBER OF CONDUCTORS CABLED TOGETHER.  
 FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSMNW

- SIXTH - CROSS-LINKED POLYOLEFIN JACKET. CABLE JACKET THICKNESS 0.050 INCH NOMINAL.

TABLE I. DETAILS

PART NUMBER M24643/51- UNARMORED	TYPE	SIZE	NUMBER OF CONDTR	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS) MIN	CONDTR RES OHMS/1000FT 25° MAX
01UN	LSMNW	7	7	.400	1000	6.64
02UN	LSMNW	10	10	.495	1000	6.64
03UN	LSMNW	14	14	.535	1000	6.64
04UN	LSMNW	19	19	.590	1000	6.64
05UN	LSMNW	24	24	.685	1000	6.64
06UN	LSMNW	30	30	.725	1000	6.64
07UN	LSMNW	37	37	.785	1000	6.64
08UN	LSMNW	44	44	.890	1000	6.64

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, 300 VOLTS, TYPE LSTPNW

MIL-C-24643/52

## CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED. AWG SIZE 22, CLASS K STRANDED.  
 SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.  
 THIRD - ETHYLENE PROPYLENE RUBBER OR CROSS-LINKED POLYETHYLENE INSULATION, 0.015 INCH NOMINAL THICKNESS.  
 FOURTH - TWO CONDUCTORS CABLED TOGETHER TO FORM A PAIR.  
 FIFTH - THE REQUIRED NUMBER OF PAIRS.  
 SIXTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

## CONSTRUCTION VARIANT FOR TYPE LSTPNW

- SEVENTH - CROSS-LINKED POLYOLEFIN JACKET. (SEE TABLE I FOR THICKNESS). CABLE SURFACE MARKING REQUIRED.

TABLE I. DETAILS

PART NUMBER M24643/52- UNARMORED	TYPE	SIZE	NUMBER OF PAIRS	OVERALL DIAMETER MAXIMUM IN	INSUL RES (MEGOHMS) MIN	CONDTR RES OHMS/1000FT 25° MAX
01UN	LSTPNW	1-1/2	1-1/2	.235	1000	16.90
02UN	LSTPNW	3	3	.310	1000	16.90
03UN	LSTPNW	5	5	.365	1000	16.90
04UN	LSTPNW	10	10	.470	1000	16.90
05UN	LSTPNW	15	15	.530	1000	16.90
06UN	LSTPNW	20	20	.575	1000	16.90
07UN	LSTPNW	30	30	.680	1000	16.90
08UN	LSTPNW	40	40	.765	1000	16.90



MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS8NW6

MIL-C-24643/54

CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED.
- SECOND - SEPARATOR (WHITE) MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION, COLORED BLACK NOMINAL THICKNESS OF 0.030 INCH.
- FOURTH - EIGHT CONDUCTORS CABLED TOGETHER.
- FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

CONSTRUCTION VARIANT FOR TYPE LS8NW6

- SIXTH - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL THICKNESS OF 0.040 INCH. MAXIMUM OVERALL DIAMETER 0.670 INCH. CABLE SURFACE MARKING REQUIRED.

BASIC ELECTRICAL:

CONDUCTOR RESISTANCE - OHMS/1000 FEET, AT 25°C. MAXIMUM

1.68

INSULATION RESISTANCE

MEGOHMS 1000 FEET, MINIMUM

4200

MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE LS4NW8

MIL-C-24643/55

CONSTRUCTION (NON-WATERTIGHT)

- FIRST - COPPER CONDUCTOR, UNCOATED, AWG NO. 8, CLASS B STRANDING, (7 BY 0.0486 INCH).
- SECOND - SEPARATOR (WHITE) MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION, COLORED BLACK NOMINAL THICKNESS OF 0.045 INCH.
- FOURTH - FOUR CONDUCTORS CABLED TOGETHER.
- FIFTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.

CONSTRUCTION VARIANT FOR TYPE LS4NW8

- SIXTH - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL THICKNESS OF 0.050 INCH. MAXIMUM OVERALL DIAMETER 0.74 INCH. CABLE SURFACE MARKING REQUIRED.

BASIC ELECTRICAL:

CONDUCTOR RESISTANCE - OHMS/1000 FEET, AT 25°C MAXIMUM

0.653

INSULATION RESISTANCE

MEGOHMS 1000 FEET, MINIMUM

4200

## CABLE, ELECTRICAL, TYPE LS2SWL-7

MIL-C-24643/56

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, AWG NO. 16, CLASS B STRANDING,
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS 0.019 INCH.
- FOURTH - TWO INSULATED CONDUCTORS (ONE BLACK, ONE WHITE), CABLED TOGETHER.
- FIFTH - BRAIDED SHIELD OF TIN COATED COPPER, SIZE EITHER AWG NO. 34 OR AWG NO. 36.
- SIXTH - SHIELD INSULATION OF TWO POLYESTER TAPES, TYPE G IN ACCORDANCE WITH MIL-I-631, SEALED.
- SEVENTH - SEVEN SHIELDED PAIRS CABLED TOGETHER.
- EIGHTH - BINDER TAPE APPLIED HELICALLY WITH OVERLAP.
- NINTH - CROSS-LINKED POLYOLEFIN JACKET WITH CABLE SURFACE MARKING. MINIMUM JACKET THICKNESS SHALL BE 0.060 INCH. CABLE OVERALL DIAMETER SHALL BE 0.860 MINIMUM, 0.910 MAXIMUM.

## BASIC ELECTRICAL:

CONDUCTOR RESISTANCE - OHMS/1000 FEET, AT 25°C MAXIMUM

4.44

INSULATION RESISTANCE

MEGOHMS 1000 FEET, MINIMUM

500

## MIL-STD-242J(NAVY), PART 10

CABLE, ELECTRICAL, TYPE AND SIZE LS2UW-42

MIL-C-24643/57

## CONSTRUCTION (WATERTIGHT)

- FIRST - COPPER CONDUCTOR, TIN COATED, IN ACCORDANCE WITH ASTM B 286, SIZE 26-7. NOMINAL DIAMETER 0.020 INCH.
- SECOND - SEPARATOR MAY BE USED AT MANUFACTURER'S OPTION.
- THIRD - CROSS-LINKED POLYETHYLENE INSULATION. NOMINAL THICKNESS 0.015 INCH.
- FOURTH - TWO INSULATED CONDUCTORS TWISTED TO FORM A PAIR.
- FIFTH - FORTY-TWO PAIRS CABLED TOGETHER.
- SIXTH - A BINDER TYPE OF POLYESTER, TYPE G IN ACCORDANCE WITH MIL-I-631.
- SEVENTH - A BRAIDED SHIELD WHOSE STRANDS ARE AWG NO. 34 TIN COATED COPPER.
- EIGHTH - A SEPARATOR TAPE APPLIED HELICALLY WITH OVERLAP.
- NINTH - CROSS-LINKED POLYOLEFIN JACKET. NOMINAL WALL THICKNESS 0.065 INCH. OVERALL CABLE DIAMETER 0.750 INCH MINIMUM, 0.790 INCH MAXIMUM.

## BASIC ELECTRICAL:

CONDUCTOR RESISTANCE - OHMS/1000 FEET, AT 25°C MAXIMUM	45.19
INSULATION RESISTANCE	
MEGOHMS 1000 FEET, MINIMUM	500

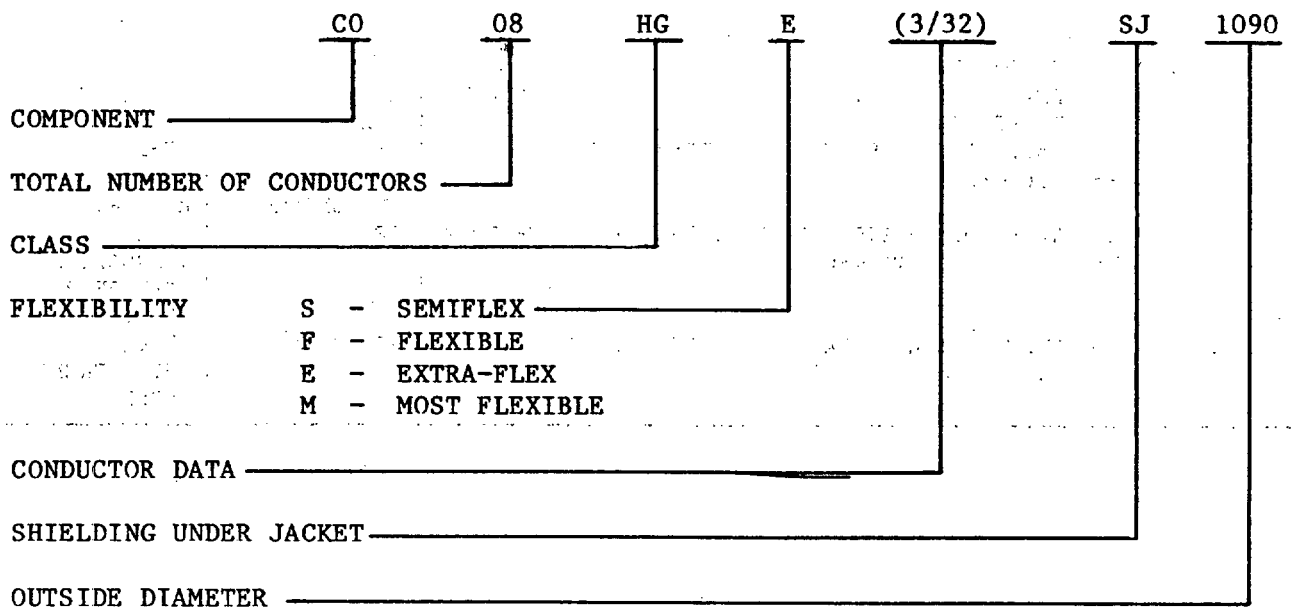
## MIL-STD-242J(NAVY), PART 10

CABLES, (POWER AND SPECIAL PURPOSE) AND WIRE, ELECTRICAL (300 AND 600 VOLTS)

MIL-C-3432

SCOPE: THIS SECTION COVERS SINGLE AND MULTIPLE CONDUCTOR CABLES WITH AND WITHOUT SHIELD FOR USE IN 300 AND 600 VOLTS ROOT MEAN SQUARE(RMS) APPLICATION. THESE ARE INTENDED FOR USE BY THE ARMED SERVICES IN EXTENSIVE ELECTRICAL AND ELECTRONIC APPLICATIONS. THE CABLES CAN BE USED TO TRANSMIT POWER, SYNCH PULSE, DATA TRANSMISSION VOLTAGES, VIDEO, AUDIO-OR CONTROL-POWER. THE SHIELDED CABLES ARE SUITABLE FOR RADIO FREQUENCY USE IN LIMITED APPLICATIONS.

TYPE DESIGNATOR: CO08HGE(3/32)SJ1090



## MIL-STD-242J(NAVY), PART 10

CABLES, (POWER AND SPECIAL PURPOSE) AND WIRE, ELECTRICAL (300 AND 600 VOLTS)

MIL-C-3432

TABLE I. DUTY OF CABLES.

CLASS DESIGNATING LETTER	DUTY	VOLTAGE RATING (MAX) VOLTS	INSULATION THICKNESS NOM RANGE		JACKET THICKNESS NOM RANGE	
			VULCANIZED RUBBER INCH	POLYETHYLENE AND PVC INCH	VULCANIZED RUBBER INCH	POLYURETHANE AND PVC INCH
L	LIGHT	300	.016-.021	.010-.015	.020-.050	10%-15%
M	MEDIUM	600	.030-.038	.012-.020	.027-.172	OF JACKET
H	HEAVY	600	.030-.094	.015-.075	.035-.203	INSIDE DIAMETER

TABLE II. APPLICATION OF CABLE.

CLASS DESIGNATING LETTER	APPLICATION	INSULATING COMPOUND	JACKETING COMPOUND
		PER MIL-I-3930	
G	G.P. MEDIUM LOW TEMP. -40° TO +75°C	IS, IH, SBR	JN, JS(SBR)
O	OIL RESISTIVE, MEDIUM LOW TEMP, -40° TO +75°C	EPM, EPDM	JN(CHLOROPRENE
L	LOW TEMP, HEAT RESISTANT, -55° TO +75°C	IS, IP(SBR)	RUBBER)
D	LOW TEMP, OIL RESISTANT, HEAT RESISTANT, -55° TO +75°	IS-L(SBR)	JS-L, JN-L(SBR)
H	LOW TEMP, SUPERIOR HEAT AND WEATHER RESISTANT, -55° TO +90°C	IS-L(SBR)	JN-L(CHLOROPRENE
B	LOW TEMP, OIL RESISTANT, SUPERIOR HEAT RESISTANT -55° TO +80°C	IH,	RUBBER)
C	LOW TEMP, OIL RESISTANT, HEAT RESISTANT, -55° TO +80°C	(EPM OR EPDM)	JH(EPDM)
K	LOW TEMP, OIL RESISTANT, HEAT RESISTANT, WEATHER RESISTANT, 55° TO +80°C	IH	JN-L (CHLOROPRENE
N	LOW TEMP, OIL RESISTANT, HEAT RESISTANT -40° TO 85°C	(EPM OR EPDM)	RUBBER)
		IE	JN-L
		POLYETHYLENE	(CHLOROPRENE
		CROSSLINKED	RUBBER)
		IE	JU
			THERMOPLASTIC
			POLYURETHANE
			ELASTOMER
		IR OR IL	JR OR JN
			CHLOROPRENE
			RUBBER

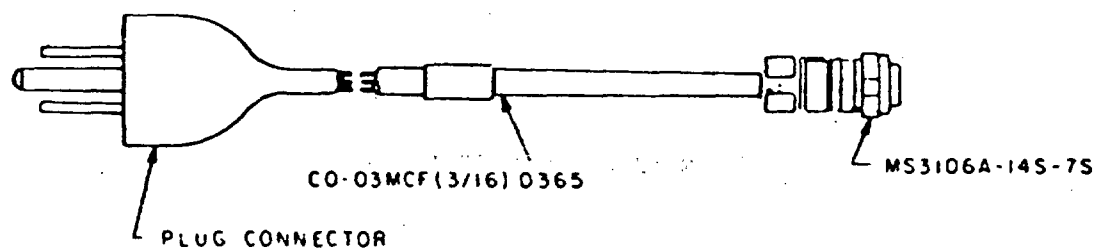
## MIL-STD-242J(NAVY), PART 10

CABLE ASSEMBLY, (TYPE I), ELECTRONIC TEST EQUIPMENT, (2 POLES, 3 WIRES,  
125 VOLTS, 15 AMPERES, 50/60 HERTZ), GROUNDING PLUG CONNECTOR AND  
MIL-C-5015 CONNECTOR WITH CABLE CLAMP

MIL-C-28777

SCOPE: THIS SECTION COVERS ELECTRICAL CABLE ASSEMBLIES HAVING A SAFETY  
GROUND PLUG CONNECTOR ATTACHED TO ONE END AND VARIOUS CONNECTORS  
OR CONNECTIONS PROVISIONS ON THE OTHER END. THESE CABLE ASSEMBLIES  
ARE INTENDED FOR USE WITH SMALL PORTABLE TEST EQUIPMENT REQUIRING  
125 OR 250 VOLTS ac OR 28 VOLTS dc.

MIL-C-28777/1

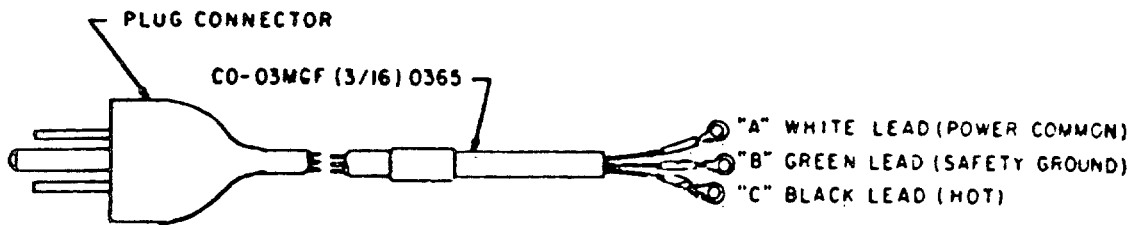


PART NUMBER: M28777/1-1

## MIL-STD-242J(NAVY), PART 10

CABLE ASSEMBLY, (TYPE I), ELECTRONIC TEST EQUIPMENT, (2 POLE, 3 WIRES,  
125 VOLTS, 15 AMPERES, 50 OR 60 HERTZ), GROUNDING PLUG CONNECTOR AND  
TERMINAL LUGS

MIL-C-28777/2



PART NUMBER: M28777/2-1



## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE(PTFE) INSULATED,  
200°C, 600 VOLTS, EXTRUDED INSULATION

MIL-W-16878

SCOPE: THIS SECTION COVERS UNSHIELDED WIRE FOR HOOK UP AND LEAD WIRING OF ELECTRICAL AND ELECTRONIC COMPONENTS AND EQUIPMENT, TO HAVE MINIMUM WIRE AND WEIGHT CONSISTENT WITH SERVICE REQUIREMENTS. THE TEMPERATURE RATING OF WIRE INCLUDED RANGES TO A MAXIMUM OF 260°C, WITH POTENTIAL RATING FROM 250 TO 3,000 VOLTS(RMS). THIS SINGLE CONDUCTOR WIRE IS INTENDED TO BE USED IN INTERNAL WIRING OF ELECTRICAL AND ELECTRONIC EQUIPMENT AND SWITCHBOARDS.

PART NUMBER - M16787/04BCB902

		<u>M1678</u>	<u>/04</u>	<u>B</u>	<u>C</u>	<u>B</u>	<u>902</u>
MILITARY SPECIFICATION NUMBER							
SPECIFICATION SHEET NUMBER							
CONDUCTOR MATERIAL	A - BARE COPPER						
	B - COATED COPPER						
	D - COATED HIGH STRENGTH COPPER ALLOY						
CONDUCTOR SIZE	A - 32	L - 12					
	B - 30	M - 10					
	C - 28	N - 8					
	D - 26	P - 6					
	E - 24	R - 4					
	F - 22	S - 2					
	G - 20	T - 1					
	H - 18	U - 0					
	J - 16	W - 00					
	K - 14	Y - 000					
		Z - 0000					
STRANDS	A - 1	K - 105					
	B - 7	L - 133					
	C - 10	M - 259					
	D - 16	N - 427					
	E - 19	P - 665					
	F - 26	R - 817					
	G - 37	S - 1045					
	H - 41	T - 1330					
	J - 65	V - 1672					
		W - 2109					
INSULATION COLOR CODE	0 - BLACK						
	2 - RED						
	9 - WHITE						

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE (PTFE) INSULATED,  
200°C, 600 VOLTS, EXTRUDED INSULATION

MIL-W-16878/4

SH 11875

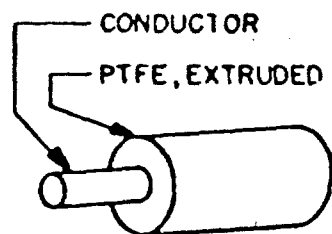


TABLE I. CONSTRUCTION DETAILS

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER (INCH)	
		MATERIAL	COATING		MIN	MAX
32	1 X 32	COPPER	SILVER	0.0089	0.025	0.033
32	1 X 32	H.S.C.A.	SILVER	0.0089	0.025	0.033
32	1 X 32	C.C. STEEL	SILVER	0.0089	0.025	0.033
32	7 X 40	COPPER	SILVER	0.010	0.026	0.034
32	7 X 40	H.S.C.A.	SILVER	0.010	0.026	0.034
30	1 X 30	COPPER	SILVER	0.0100	0.026	0.034
30	1 X 30	H.S.C.A.	SILVER	0.0100	0.026	0.034
30	1 X 30	C.C. STEEL	SILVER	0.0100	0.026	0.034
30	7 X 38	COPPER	SILVER	0.012	0.028	0.036
30	7 X 38	H.S.C.A.	SILVER	0.012	0.028	0.036
28	1 X 28	COPPER	SILVER	0.0126	0.029	0.037
28	1 X 28	H.S.C.A.	SILVER	0.0126	0.029	0.037
28	1 X 28	C.C. STEEL	SILVER	0.0126	0.029	0.037
28	7 X 36	COPPER	SILVER	0.015	0.031	0.039
28	7 X 36	H.S.C.A.	SILVER	0.015	0.031	0.039
26	1 X 26	COPPER	SILVER	0.0159	0.032	0.040
26	1 X 26	H.S.C.A.	SILVER	0.0159	0.032	0.040
26	1 X 26	C.C. STEEL	SILVER	0.0159	0.032	0.040
26	7 X 34	COPPER	SILVER	0.019	0.035	0.043
26	7 X 34	H.S.C.A.	SILVER	0.019	0.035	0.043
26	19 X 38	COPPER	SILVER	0.020	0.035	0.043
26	19 X 38	H.S.C.A.	SILVER	0.020	0.035	0.043
24	1 X 24	COPPER	SILVER	0.0201	0.036	0.044
24	1 X 24	H.S.C.A.	SILVER	0.0201	0.036	0.044
24	7 X 32	COPPER	SILVER	0.024	0.040	0.048
24	7 X 32	H.S.C.A.	SILVER	0.024	0.040	0.048
24	19 X 36	COPPER	SILVER	0.025	0.040	0.048
24	19 X 36	H.S.C.A.	SILVER	0.025	0.040	0.048
22	1 X 22	COPPER	SILVER	0.0254	0.041	0.049
22	1 X 22	H.S.C.A.	SILVER	0.0254	0.041	0.049
22	7 X 30	COPPER	SILVER	0.030	0.046	0.054
22	7 X 30	H.S.C.A.	SILVER	0.030	0.046	0.054
22	19 X 34	COPPER	SILVER	0.032	0.046	0.054
22	19 X 34	H.S.C.A.	SILVER	0.032	0.046	0.054

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE(PTFE) INSULATED,  
200°C, 600 VOLTS, EXTRUDED INSULATION

MIL-W-16878/4

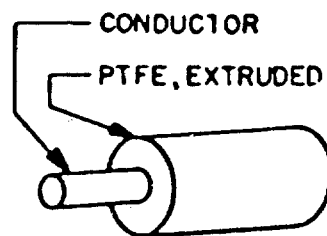
TABLE I. CONSTRUCTION DETAILS (CONT.)

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER(INCH)	
		MATERIAL	COATING		MIN	MAX
20	1 X 20	COPPER	SILVER	0.0320	0.048	0.056
20	1 X 20	H.S.C.A.	SILVER	0.0320	0.048	0.056
20	7 X 28	COPPER	SILVER	0.038	0.054	0.062
20	7 X 28	H.S.C.A.	SILVER	0.038	0.054	0.062
20	19 X 32	COPPER	SILVER	0.040	0.054	0.062
20	19 X 32	H.S.C.A.	SILVER	0.040	0.054	0.062
18	1 X 18	COPPER	SILVER	0.0403	0.056	0.066
18	7 X 26	COPPER	SILVER	0.048	0.064	0.074
18	19 X 30	COPPER	SILVER	0.050	0.064	0.074
16	1 X 16	COPPER	SILVER	0.0508	0.067	0.081
16	19 X 29	COPPER	SILVER	0.057	0.073	0.087
14	19 X 27	COPPER	SILVER	0.072	0.088	0.102
12	19 X 25	COPPER	SILVER	0.091	0.107	0.121
12	37 X 28	COPPER	SILVER	0.089	0.105	0.119
10	37 X 26	COPPER	SILVER	0.111	0.127	0.141

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE (PTFE) INSULATED,  
200°C, 1000 VOLTS, EXTRUDED INSULATION

MIL-W-16878/5



SH 11875

TABLE I. CONSTRUCTION DETAILS

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER (INCH)	
		MATERIAL	COATING		MIN	MAX
32	1 X 32	COPPER	SILVER	0.0080	0.034	0.042
32	1 X 32	H.S.C.A.	SILVER	0.0080	0.034	0.042
32	1 X 32	C.C. STEEL	SILVER	0.0080	0.034	0.042
32	7 X 40	COPPER	SILVER	0.010	0.036	0.044
32	7 X 40	H.S.C.A.	SILVER	0.010	0.036	0.044
30	1 X 30	COPPER	SILVER	0.0100	0.036	0.044
30	1 X 30	H.S.C.A.	SILVER	0.0100	0.036	0.044
30	1 X 30	C.C. STEEL	SILVER	0.0100	0.036	0.044
30	7 X 38	COPPER	SILVER	0.012	0.038	0.046
30	7 X 38	H.S.C.A.	SILVER	0.012	0.038	0.046
28	1 X 28	COPPER	SILVER	0.0126	0.039	0.047
28	1 X 28	H.S.C.A.	SILVER	0.0126	0.039	0.047
28	1 X 28	C.C. STEEL	SILVER	0.0126	0.039	0.047
28	7 X 36	COPPER	SILVER	0.015	0.041	0.049
28	7 X 36	H.S.C.A.	SILVER	0.015	0.041	0.049
26	1 X 26	COPPER	SILVER	0.0159	0.042	0.050
26	1 X 26	H.S.C.A.	SILVER	0.0159	0.042	0.050
26	1 X 26	C.C. STEEL	SILVER	0.0159	0.042	0.050
26	7 X 34	COPPER	SILVER	0.019	0.045	0.053
26	7 X 34	H.S.C.A.	SILVER	0.019	0.045	0.053
26	19 X 38	COPPER	SILVER	0.020	0.045	0.053
26	19 X 38	H.S.C.A.	SILVER	0.020	0.045	0.053
24	1 X 24	COPPER	SILVER	0.0201	0.046	0.054
24	1 X 24	H.S.C.A.	SILVER	0.0201	0.046	0.054
24	7 X 32	COPPER	SILVER	0.024	0.050	0.058
24	7 X 32	H.S.C.A.	SILVER	0.024	0.050	0.058
24	19 X 36	COPPER	SILVER	0.025	0.050	0.058
24	19 X 36	H.S.C.A.	SILVER	0.025	0.050	0.058
22	1 X 22	COPPER	SILVER	0.0254	0.051	0.060
22	1 X 22	H.S.C.A.	SILVER	0.0254	0.051	0.060
22	7 X 30	COPPER	SILVER	0.030	0.056	0.064
22	7 X 30	H.S.C.A.	SILVER	0.030	0.056	0.064
22	19 X 34	COPPER	SILVER	0.032	0.056	0.064
22	19 X 34	H.S.C.A.	SILVER	0.032	0.056	0.064

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE (PTFE) INSULATED,  
200°C, 1000 VOLTS, EXTRUDED INSULATION

MIL-W-16878/5

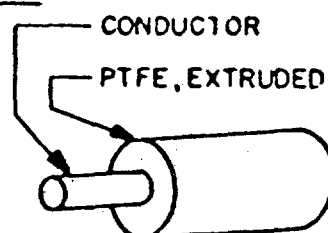
TABLE I. CONSTRUCTION DETAILS (CONT.)

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER (INCH)	
		MATERIAL	COATING		MIN	MAX
20	1 X 20	COPPER	SILVER	0.0320	0.058	0.066
20	1 X 20	H.S.C.A.	SILVER	0.0320	0.058	0.066
20	7 X 28	COPPER	SILVER	0.038	0.064	0.072
20	7 X 28	H.S.C.A.	SILVER	0.038	0.064	0.072
20	19 X 32	COPPER	SILVER	0.0403	0.064	0.072
20	19 X 32	H.S.C.A.	SILVER	0.0403	0.064	0.072
18	1 X 18	COPPER	SILVER	0.0403	0.066	0.076
18	7 X 26	COPPER	SILVER	0.048	0.074	0.084
18	19 X 30	COPPER	SILVER	0.050	0.074	0.084
16	1 X 16	COPPER	SILVER	0.0508	0.077	0.089
16	19 X 29	COPPER	SILVER	0.057	0.083	0.095
14	19 X 27	COPPER	SILVER	0.072	0.098	0.114
12	19 X 25	COPPER	SILVER	0.091	0.117	0.133
12	37 X 28	COPPER	SILVER	0.089	0.115	0.131
10	37 X 26	COPPER	SILVER	0.111	0.137	0.153
8	133 X 29	COPPER	SILVER	0.169	0.199	0.219
6	133 X 27	COPPER	SILVER	0.213	0.253	0.273

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE(PTFE) INSULATED,  
200°C, 250 VOLTS, EXTRUDED INSULATION

MIL-W-16878/6



SH 11875

TABLE I. CONSTRUCTION DETAILS

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER(INCH)	
		MATERIAL	COATING		MIN	MAX
32	7 X 40	COPPER	SILVER	0.010	0.020	0.024
32	7 X 40	H.S.C.A.	SILVER	0.010	0.020	0.024
32	7 X 40	C.C. STEEL	SILVER	0.010	0.020	0.024
30	1 X 30	COPPER	SILVER	0.0100	0.020	0.024
30	1 X 30	H.S.C.A.	SILVER	0.0100	0.020	0.024
30	1 X 30	C.C. STEEL	SILVER	0.0100	0.020	0.024
30	7 X 38	COPPER	SILVER	0.012	0.022	0.026
30	7 X 38	H.S.C.A.	SILVER	0.012	0.022	0.026
28	1 X 28	COPPER	SILVER	0.0126	0.023	0.027
28	1 X 28	H.S.C.A.	SILVER	0.0126	0.023	0.027
28	1 X 28	C.C. STEEL	SILVER	0.0126	0.023	0.027
28	7 X 36	COPPER	SILVER	0.015	0.025	0.029
28	7 X 36	H.S.C.A.	SILVER	0.015	0.025	0.029
26	1 X 26	COPPER	SILVER	0.0159	0.026	0.030
26	1 X 26	H.S.C.A.	SILVER	0.0159	0.026	0.030
26	1 X 26	C.C. STEEL	SILVER	0.0159	0.026	0.030
26	7 X 34	COPPER	SILVER	0.019	0.029	0.033
26	7 X 34	H.S.C.A.	SILVER	0.019	0.029	0.033
26	19 X 38	COPPER	SILVER	0.020	0.029	0.033
26	19 X 38	H.S.C.A.	SILVER	0.020	0.029	0.033
24	1 X 24	COPPER	SILVER	0.0201	0.030	0.034
24	1 X 24	H.S.C.A.	SILVER	0.0201	0.030	0.034
24	7 X 32	COPPER	SILVER	0.024	0.034	0.038
24	7 X 32	H.S.C.A.	SILVER	0.024	0.034	0.038
24	19 X 36	COPPER	SILVER	0.025	0.034	0.038
24	19 X 36	H.S.C.A.	SILVER	0.025	0.034	0.038
22	1 X 22	COPPER	SILVER	0.0254	0.035	0.040
22	1 X 22	H.S.C.A.	SILVER	0.0254	0.035	0.040
22	7 X 30	COPPER	SILVER	0.030	0.040	0.044
22	7 X 30	H.S.C.A.	SILVER	0.030	0.040	0.044
22	19 X 34	COPPER	SILVER	0.032	0.040	0.044
22	19 X 34	H.S.C.A.	SILVER	0.032	0.040	0.044

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, POLYTETRAFLUOROETHYLENE(PTFE) INSULATED,  
200°C, 250 VOLTS, EXTRUDED INSULATION

MIL-W-16878/6

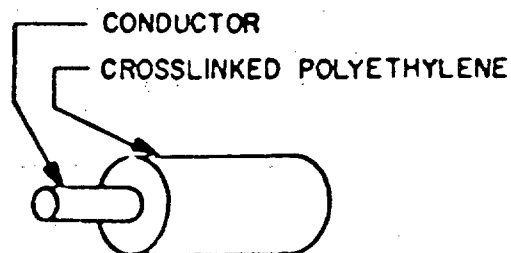
TABLE I. CONSTRUCTION DETAILS (CONT.)

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER(INCH)	
		MATERIAL	COATING		MIN	MAX
20	1 X 20	COPPER	SILVER	0.0320	0.042	0.046
20	1 X 20	H.S.C.A.	SILVER	0.0320	0.042	0.046
20	7 X 28	COPPER	SILVER	0.038	0.048	0.052
20	7 X 28	H.S.C.A.	SILVER	0.038	0.048	0.052
20	19 X 32	COPPER	SILVER	0.040	0.048	0.052
20	19 X 32	H.S.C.A.	SILVER	0.040	0.048	0.052

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, CROSSLINKED MODIFIED POLYETHYLENE(XLPE)  
INSULATED, 125°C, 600 VOLTS

MIL-W-16878/14



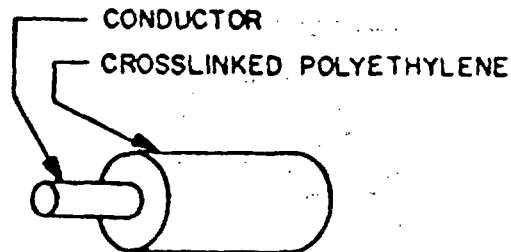
SH 11880

TABLE I. CONSTRUCTION DETAILS

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER(INCH)	
		MATERIAL	COATING		MIN	MAX
32	1 X 32	COPPER	TIN	0.0080	0.024	0.030
32	7 X 40	COPPER	TIN	0.010	0.026	0.032
30	1 X 30	COPPER	TIN	0.0100	0.026	0.032
30	7 X 38	COPPER	TIN	0.012	0.028	0.034
28	1 X 28	COPPER	TIN	0.0126	0.029	0.035
28	7 X 36	COPPER	TIN	0.015	0.031	0.037
26	1 X 26	COPPER	TIN	0.0159	0.032	0.038
26	7 X 34	COPPER	TIN	0.019	0.035	0.041
26	19 X 38	COPPER	TIN	0.020	0.035	0.041
24	1 X 24	COPPER	TIN	0.0201	0.036	0.044
24	7 X 32	COPPER	TIN	0.024	0.040	0.047
24	19 X 36	COPPER	TIN	0.025	0.040	0.047
22	1 X 22	COPPER	TIN	0.0254	0.041	0.049
22	7 X 30	COPPER	TIN	0.030	0.046	0.053
22	19 X 34	COPPER	TIN	0.032	0.046	0.053
20	1 X 20	COPPER	TIN	0.0320	0.048	0.055
20	7 X 28	COPPER	TIN	0.038	0.054	0.061
20	19 X 32	COPPER	TIN	0.040	0.054	0.061
18	1 X 18	COPPER	TIN	0.0403	0.056	0.064
18	7 X 26	COPPER	TIN	0.048	0.064	0.071
18	19 X 30	COPPER	TIN	0.050	0.064	0.071
16	1 X 16	COPPER	TIN	0.0508	0.067	0.075
16	19 X 29	COPPER	TIN	0.057	0.073	0.081
14	1 X 14	COPPER	TIN	0.064	0.080	0.088
14	19 X 27	COPPER	TIN	0.072	0.088	0.096



## MIL-STD-242 J(NAVY), PART 10

WIRE, ELECTRICAL, CROSSLINKED MODIFIED POLYETHYLENE(XLPE)  
INSULATED, 125°C, 1000 VOLTSMIL-W-16878/15

SH 11880

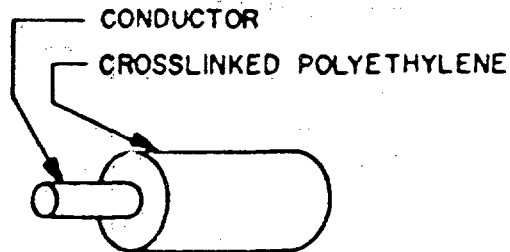
TABLE I. CONSTRUCTION DETAILS

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER(INCH)	
		MATERIAL	COATING		MIN	MAX
26	1 X 26	COPPER	TIN	0.0159	0.046	0.054
26	7 X 34	COPPER	TIN	0.019	0.049	0.057
26	19 X 38	COPPER	TIN	0.020	0.049	0.057
24	1 X 24	COPPER	TIN	0.0201	0.050	0.058
24	7 X 32	COPPER	TIN	0.024	0.054	0.062
24	19 X 36	COPPER	TIN	0.025	0.054	0.062
22	1 X 22	COPPER	TIN	0.0254	0.055	0.064
22	7 X 30	COPPER	TIN	0.030	0.060	0.068
22	19 X 34	COPPER	TIN	0.032	0.060	0.068
20	1 X 20	COPPER	TIN	0.0320	0.062	0.070
20	7 X 28	COPPER	TIN	0.038	0.068	0.076
20	19 X 32	COPPER	TIN	0.040	0.068	0.076
18	1 X 18	COPPER	TIN	0.0403	0.070	0.079
18	7 X 26	COPPER	TIN	0.048	0.076	0.086
18	19 X 30	COPPER	TIN	0.047	0.076	0.086
16	1 X 16	COPPER	TIN	0.0508	0.080	0.089
16	19 X 29	COPPER	TIN	0.057	0.087	0.095
16	26 X 30	COPPER	TIN	0.060	0.090	0.098
14	1 X 14	COPPER	TIN	0.0641	0.094	0.103
14	19 X 27	COPPER	TIN	0.072	0.102	0.110
14	41 X 30	COPPER	TIN	0.076	0.106	0.114
12	19 X 25	COPPER	TIN	0.091	0.121	0.129
12	37 X 28	COPPER	TIN	0.089	0.119	0.127
12	65 X 30	COPPER	TIN	0.093	0.123	0.131

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, CROSSLINKED MODIFIED POLYETHYLENE(XLPE)  
INSULATED, 125°C, 3000 VOLTS

MIL-W-16878/16



SH 11880

TABLE I. CONSTRUCTION DETAILS

WIRE SIZE	STRANDING	CONDUCTOR		CONDUCTOR DIAMETER (NOMINAL)	FINISHED WIRE DIAMETER (INCH)	
		MATERIAL	COATING		MIN	MAX
26	1 X 26	COPPER	TIN	0.0159	0.067	0.082
26	7 X 34	COPPER	TIN	0.019	0.070	0.085
26	19 X 38	COPPER	TIN	0.020	0.070	0.085
24	1 X 24	COPPER	TIN	0.0201	0.071	0.086
24	7 X 32	COPPER	TIN	0.024	0.075	0.090
24	19 X 36	COPPER	TIN	0.025	0.075	0.090
22	1 X 22	COPPER	TIN	0.0254	0.076	0.091
22	7 X 30	COPPER	TIN	0.030	0.081	0.098
22	19 X 34	COPPER	TIN	0.032	0.081	0.098
20	1 X 20	COPPER	TIN	0.0320	0.083	0.098
20	7 X 28	COPPER	TIN	0.038	0.089	0.105
20	19 X 32	COPPER	TIN	0.040	0.089	0.105
18	1 X 18	COPPER	TIN	0.0403	0.091	0.106
18	7 X 26	COPPER	TIN	0.048	0.099	0.114
18	19 X 30	COPPER	TIN	0.047	0.099	0.114
16	1 X 16	COPPER	TIN	0.0508	0.102	0.117
16	19 X 29	COPPER	TIN	0.057	0.108	0.123
16	26 X 30	COPPER	TIN	0.060	0.111	0.125
14	1 X 14	COPPER	TIN	0.0641	0.115	0.130
14	19 X 27	COPPER	TIN	0.072	0.123	0.138
14	41 X 30	COPPER	TIN	0.076	0.127	0.142
12	19 X 25	COPPER	TIN	0.092	0.156	0.171
12	37 X 28	COPPER	TIN	0.089	0.153	0.168
12	65 X 30	COPPER	TIN	0.093	0.157	0.172

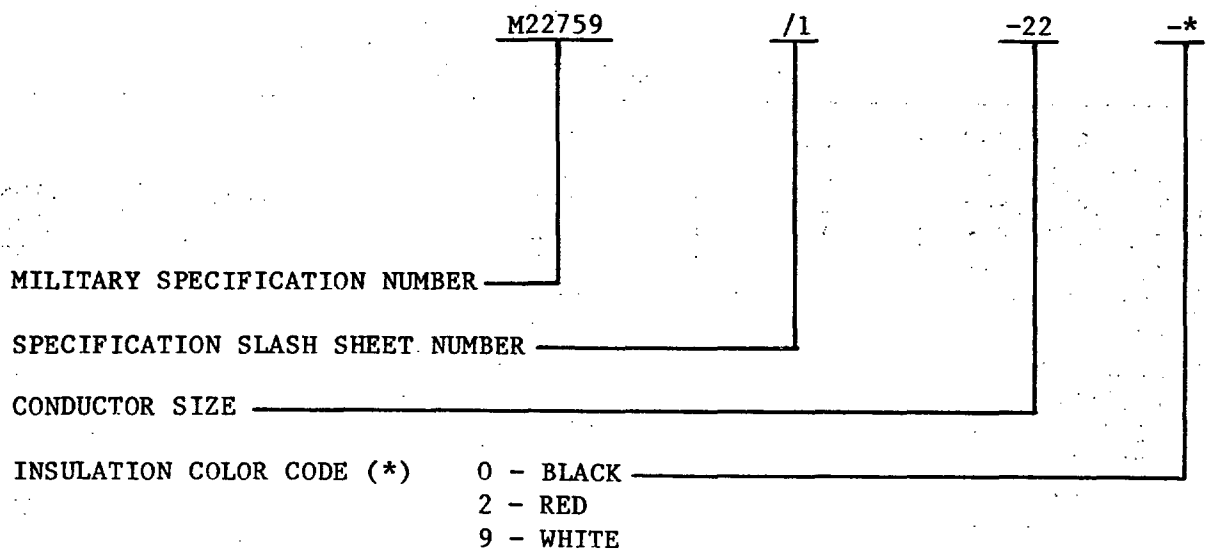
## MIL-STD-242J(NAVY), PART 10

## WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED COPPER OR COPPER ALLOY

MIL-W-22759

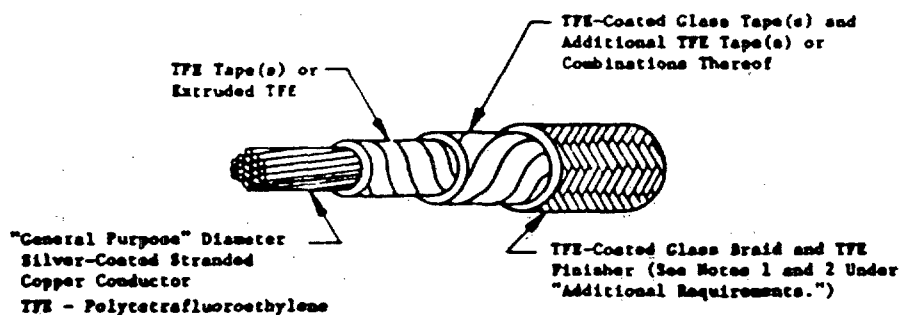
SCOPE: THIS SECTION COVERS FLUOROPOLYMER-INSULATED SINGLE CONDUCTORS, ELECTRIC WIRES MADE WITH TIN-COATED, SILVER COATED OR NICKEL COATED CONDUCTORS OF COPPER OR COPPER ALLOY. THE FLUOROPOLYMER MAY BE USED ALONE OR IN COMBINATION WITH OTHER INSULATION MATERIALS. THE ELECTRIC WIRES COVERED BY THIS SPECIFICATION ARE INTENDED FOR USE IN ANY APPLICATION WHERE THEIR PERFORMANCE CHARACTERISTICS ARE REQUIRED.

PART NUMBER: M22759/1-22-\*



## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, TFE AND TFE-COATED-GLASS, SILVER  
COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/1

TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: 5000, MEGOHMS/1000 FEET(MIN)

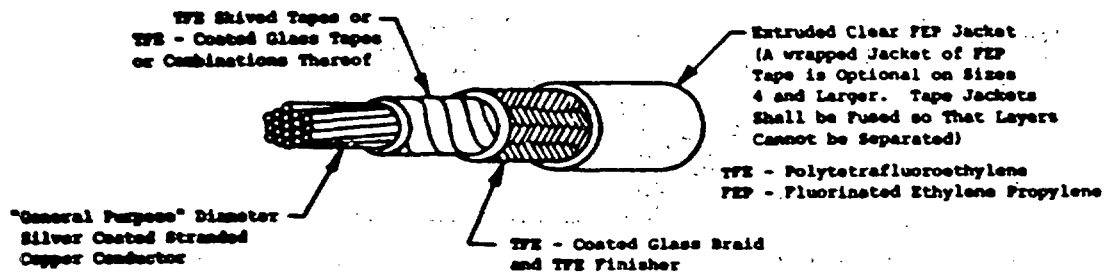
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/1-22-*	22	19 X 34	.032	.084
M22759/1-20-*	20	19 X 32	.040	.094
M22759/1-18-*	18	19 X 30	.050	.105
M22759/1-16-*	16	19 X 29	.057	.120
M22759/1-14-*	14	19 X 27	.072	.138
M22759/1-12-*	12	37 X 28	.089	.157
M22759/1-10-*	10	37 X 26	.112	.181
M22759/1-8-*	8	133 X 29	.169	.248
M22759/1-6-*	6	133 X 27	.213	.293
M22759/1-4-*	4	133 X 25	.268	.355
M22759/1-2-*	2	665 X 30	.340	.420
M22759/1-1-*	1	817 X 30	.380	.470
M22759/1-01-*	0	1045 X 30	.425	.515
M22759/1-02-*	00	1330 X 30	.475	.575
M22759/1-03-*	000	1665 X 30	.540	.640
M22759/1-04-*	0000	2109 X 30	.605	.710

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, TFE-GLASS-FEP, MEDIUM WEIGHT,  
SILVER-COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/4



TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

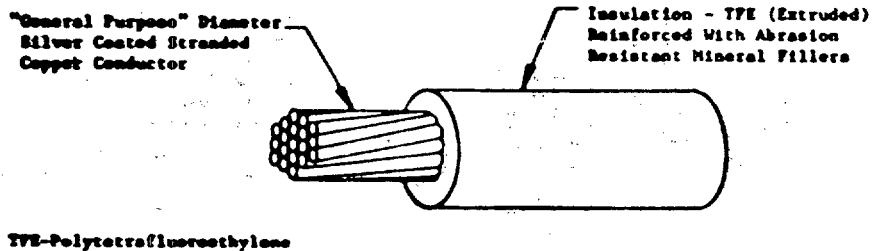
INSULATION RESISTANCE: 5000, MEGOHMS/1000 FEET(MIN)

TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)		FINISHED WIRE	
			MIN	MAX	THICKNESS OF FEP JACKET IN	DIA IN
M22759/4-22-*	22	19 X 34	.029	.032	.009	.074
M22759/4-20-*	20	19 X 32	.037	.040	.009	.082
M22759/4-18-*	18	19 X 30	.046	.050	.010	.095
M22759/4-16-*	16	19 X 29	.052	.057	.010	.101
M22759/4-14-*	14	19 X 27	.065	.072	.010	.116
M22759/4-12-*	12	37 X 28	.084	.089	.010	.133
M22759/4-10-*	10	37 X 26	.106	.112	.010	.164
M22759/4-8-*	8	133 X 29	.158	.169	.010	.235
M22759/4-6-*	6	133 X 27	.198	.213	.010	.282
M22759/4-4-*	4	133 X 25	.250	.268	.012	.351
M22759/4-2-*	2	665 X 30	.320	.340	.012	.430
M22759/4-1-*	1	817 X 30	.360	.380	.014	.480
M22759/4-01-*	0	1045 X 30	.395	.425	.014	.525
M22759/4-02-*	00	1330 X 30	.440	.475	.014	.585

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, ABRASION RESISTANT, EXTRUDED TFE,  
SILVER COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/5

TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

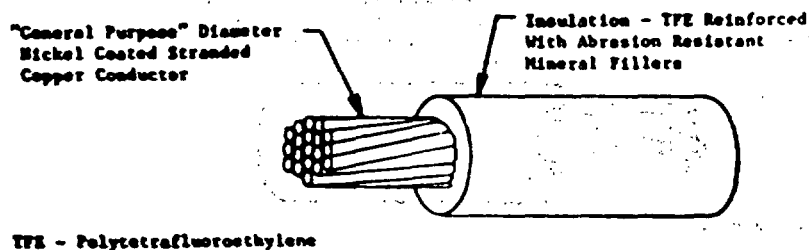
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/5-24-*	24	19 X 36	.025	.075
M22759/5-22-*	22	19 X 34	.032	.085
M22759/5-20-*	20	19 X 32	.040	.095
M22759/5-18-*	18	19 X 30	.050	.110
M22759/5-16-*	16	19 X 29	.057	.125
M22759/5-14-*	14	19 X 27	.072	.143
M22759/5-12-*	12	19 X 25	.090	.160
M22759/5-10-*	10	37 X 26	.112	.179
M22759/5-8-*	8	133 X 29	.169	.248
M22759/5-6-*	6	133 X 27	.213	.300
M22759/5-4-*	4	133 X 25	.268	.355

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, ABRASION RESISTANT, EXTRUDED TFE,  
NICKEL COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/6



TEMPERATURE: 260°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

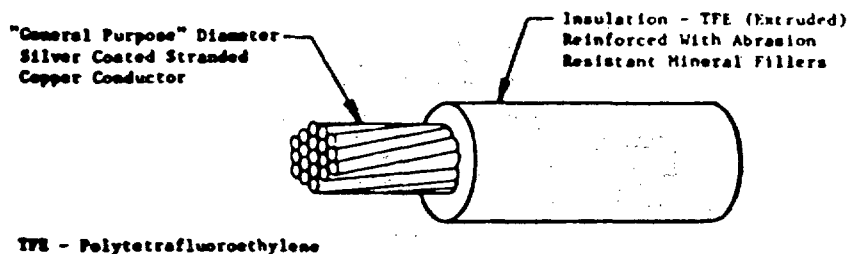
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/6-24-*	24	19 X 36	.026	.075
M22759/6-22-*	22	19 X 34	.033	.085
M22759/6-20-*	20	19 X 32	.041	.095
M22759/6-18-*	18	19 X 30	.051	.110
M22759/6-16-*	16	19 X 29	.058	.125
M22759/6-14-*	14	19 X 27	.073	.143
M22759/6-12-*	12	19 X 25	.092	.160
M22759/6-10-*	10	37 X 26	.114	.179
M22759/6-8-*	8	133 X 29	.173	.248
M22759/6-6-*	6	133 X 27	.217	.300
M22759/6-4-*	4	133 X 25	.274	.355

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, ABRASION RESISTANT, EXTRUDED TFE,  
MEDIUM WEIGHT, SILVER COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/7



TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

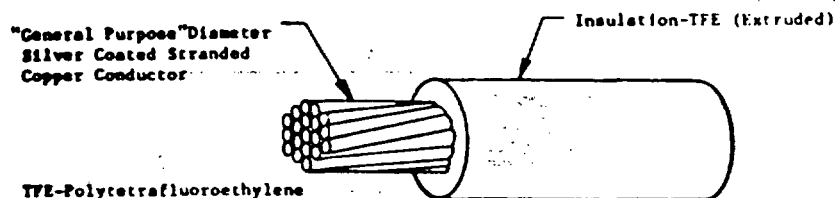
INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/7-24-*	24	19 X 36	.025	.062
M22759/7-22-*	22	19 X 34	.032	.073
M22759/7-20-*	20	19 X 32	.040	.082
M22759/7-18-*	18	19 X 30	.050	.092
M22759/7-16-*	16	19 X 29	.057	.102
M22759/7-14-*	14	19 X 27	.072	.115
M22759/7-12-*	12	19 X 25	.090	.134
M22759/7-10-*	10	37 X 26	.112	.158
M22759/7-8-*	8	133 X 29	.169	.220
M22759/7-6-*	6	133 X 27	.213	.270
M22759/7-4-*	4	133 X 25	.268	.328



## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, EXTRUDED TFE,  
SILVER COATED COPPER CONDUCTOR, 1000-VOLTMIL-W-22759/9

TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 1000 VOLTS(RMS)

INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

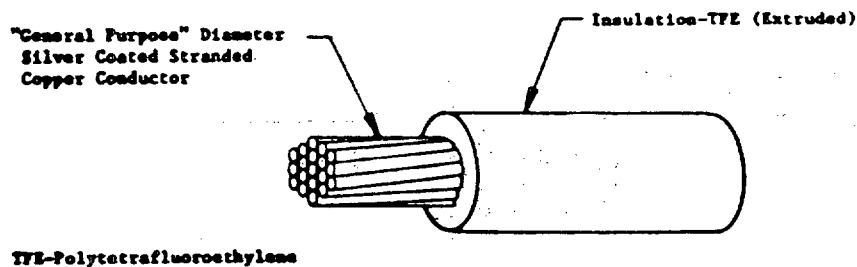
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/9-28-*	28	7 X 36	.015	.043
M22759/9-26-*	26	19 X 38	.020	.048
M22759/9-24-*	24	19 X 36	.025	.053
M22759/9-22-*	22	19 X 34	.032	.060
M22759/9-20-*	20	19 X 32	.040	.068
M22759/9-18-*	18	19 X 30	.050	.078
M22759/9-16-*	16	19 X 29	.057	.085
M22759/9-14-*	14	19 X 27	.072	.100
M22759/9-12-*	12	19 X 25	.090	.120
M22759/9-10-*	10	37 X 26	.112	.141
M22759/7-8-*	8	133 X 29	.169	.207

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, EXTRUDED TFE,  
SILVER COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/11



TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

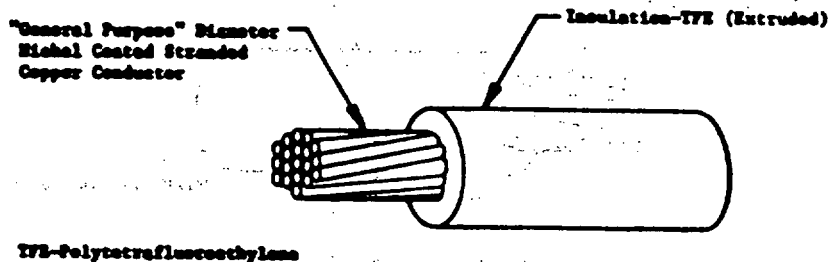
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/11-28-*	28	7 X 36	.015	.033
M22759/11-26-*	26	19 X 38	.020	.038
M22759/11-24-*	24	19 X 36	.025	.043
M22759/11-22-*	22	19 X 34	.032	.049
M22759/11-20-*	20	19 X 32	.040	.058
M22759/11-18-*	18	19 X 30	.050	.068
M22759/11-16-*	16	19 X 29	.057	.075
M22759/11-14-*	14	19 X 27	.072	.090
M22759/11-12-*	12	19 X 25	.090	.111
M22759/11-10-*	10	37 X 26	.112	.139
M22759/11-8-*	8	133 X 29	.169	.202

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, EXTRUDED TFE,  
NICKEL-COATED COPPER CONDUCTOR, 600-VOLT

MIL-W-22759/12



TEMPERATURE: 260°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

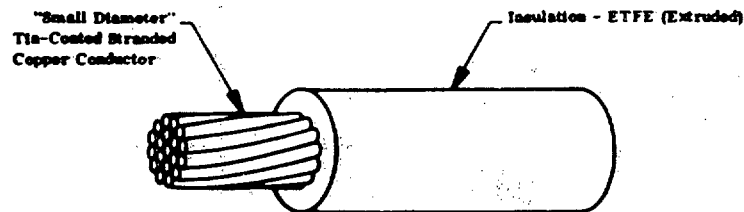
INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/12-28-*	28	7 X 36	.016	.033
M22759/12-26-*	26	19 X 38	.021	.038
M22759/12-24-*	24	19 X 36	.026	.043
M22759/12-22-*	22	19 X 34	.033	.049
M22759/12-20-*	20	19 X 32	.041	.058
M22759/12-18-*	18	19 X 30	.051	.068
M22759/12-16-*	16	19 X 29	.058	.075
M22759/12-14-*	14	19 X 27	.073	.090
M22759/12-12-*	12	19 X 25	.092	.111
M22759/12-10-*	10	37 X 26	.114	.139
M22759/12-8-*	8	133 X 29	.173	.204

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, EXTRUDED ETFE,  
MEDIUM WEIGHT, TIN-COATED COPPER CONDUCTOR, 600-VOLT, 150°C

MIL-W-22759/16

ETFE - Ethylene-Tetrafluoroethylene Copolymer

TEMPERATURE: 150°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: SIZES 24 THRU 14: 5000 MEGOHMS/1000 FEET(MIN)  
SIZES 12 THRU 6: 3000 MEGOHMS/1000 FEET(MIN)  
SIZES 4 THRU 00: 2000 MEGOHMS/1000 FEET(MIN)

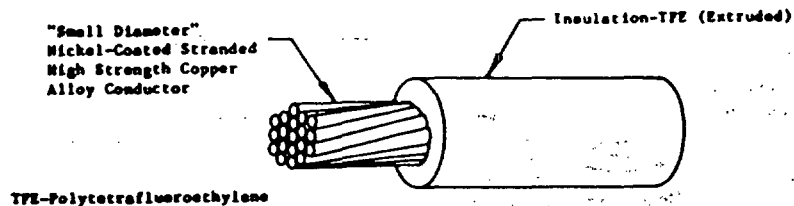
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/16-24-*	24	19 X 36	.024	.045
M22759/16-22-*	22	19 X 34	.031	.052
M22759/16-20-*	20	19 X 32	.039	.060
M22759/16-18-*	18	19 X 30	.049	.071
M22759/16-16-*	16	19 X 29	.055	.079
M22759/16-14-*	14	19 X 27	.069	.093
M22759/16-12-*	12	37 X 28	.089	.114
M22759/16-10-*	10	37 X 26	.112	.139
M22759/16-8-*	8	133 X 29	.169	.199
M22759/16-6-*	6	133 X 27	.212	.250
M22759/16-4-*	4	133 X 25	.268	.312
M22759/16-2-*	2	665 X 30	.340	.388
M22759/16-1-*	1	817 X 30	.380	.431
M22759/16-01-*	0	1045 X 30	.425	.479
M22759/16-02-*	00	1330 X 30	.475	.546

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, EXTRUDED TFE,  
NICKEL-COATED HIGH STRENGTH COPPER ALLOY CONDUCTOR, 1000-VOLT

MIL-W-22759/21



TEMPERATURE: 260°C MAXIMUM

VOLTAGE RATING: 1000 VOLTS(RMS)

INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

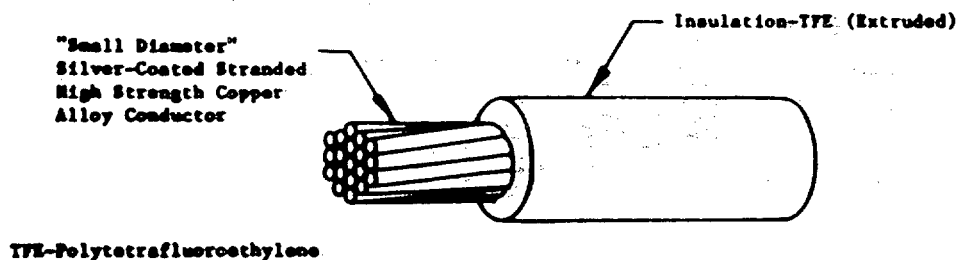
TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)		FINISHED WIRE		
			MIN	MAX	RESISTANCE AT 20°C (68°F) (OHMS/1000 FT) (MAX)	DIM IN	WT (LBS/1000 FT) (MAX)
M22759/21-28-*	28	9 X 36	.029	.016	79.0	.043	1.93
M22759/21-26-*	26	19 X 38	.018	.020	49.4	.048	2.60
M22759/21-24-*	24	19 X 36	.023	.025	30.1	.053	3.38
M22759/21-22-*	22	19 X 34	.029	.031	18.6	.060	4.61
M22759/21-20-*	20	19 X 32	.037	.040	11.4	.068	6.43

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, EXTRUDED TFE,  
SILVER COATED HIGH STRENGTH COPPER ALLOY CONDUCTOR, 600-VOLT

MIL-W-22759/22



TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: 50000, MEGOHMS/1000 FEET(MIN)

TABLE I. CONSTRUCTION DETAILS.

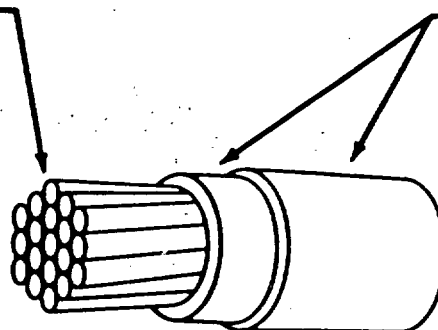
PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)		FINISHED WIRE DIAMETER IN
			MIN	MAX	
M22759/22-28-*	28	7 X 36	.014	.015	.033
M22759/22-26-*	26	19 X 38	.018	.020	.038
M22759/22-24-*	24	19 X 36	.023	.024	.043
M22759/22-22-*	22	19 X 34	.029	.031	.049
M22759/22-20-*	20	19 X 32	.037	.039	.058

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, CROSSLINKED MODIFIED ETFE,  
NORMAL WEIGHT, SILVER COATED HIGH STRENGTH COPPER ALLOY, 200°C, 600-VOLT

MIL-W-22759/35

Conductor - Silver-Coated  
High Strength Copper Alloy,  
"General Purpose" Diameter



Insulation - Crosslinked,  
Extruded, Modified ETFE\*.  
Primary insulation shall  
be of a contrasting pig-  
mentation to that of the  
outer insulation.

\*ETFE - Ethylene-Tetrafluoroethylene Copolymer

TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: 5000, MEGOHMS/1000 FEET(MIN)

TABLE I. CONSTRUCTION DETAILS.

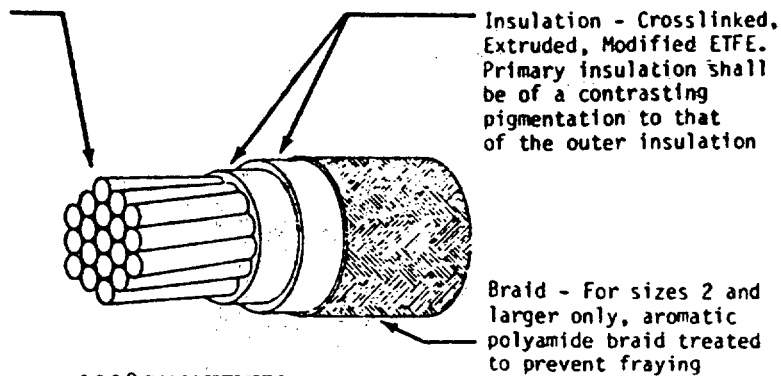
PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/35-26-*	26	19 X 38	.020	.040
M22759/35-24-*	24	19 X 36	.025	.045
M22759/35-22-*	22	19 X 34	.032	.051
M22759/35-20-*	20	19 X 32	.041	.059

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRIC, FLUOROPOLYMER-INSULATED, CROSSLINKED MODIFIED, ETFE,  
NORMAL WEIGHT, SILVER COATED COPPER, 200°C, 600-VOLT

MIL-W-22759/43

Conductor - Silver-Coated  
copper.



Insulation - Crosslinked,  
Extruded, Modified ETFE.  
Primary insulation shall  
be of a contrasting  
pigmentation to that  
of the outer insulation

Braid - For sizes 2 and  
larger only, aromatic  
polyamide braid treated  
to prevent fraying

TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 600 VOLTS(RMS)

INSULATION RESISTANCE: SIZES 26 THRU 10: 5000, MEGOHMS/1000 FEET(MIN)  
SIZES 8 THRU 00: 3000, MEGOHMS/1000 FEET(MIN)

TABLE I. CONSTRUCTION DETAILS.

PART NUMBER	WIRE SIZE (AWG)	STRANDING (NUMBER OF STRANDS X AWG GAGE OF STRANDS)	DIAMETER OF STRANDED CONDUCTOR (INCHES)	FINISHED WIRE DIAMETER IN
M22759/43-26-*	26	19 X 38	.020	.040
M22759/43-24-*	24	19 X 36	.025	.045
M22759/43-22-*	22	19 X 34	.032	.051
M22759/43-20-*	20	19 X 32	.040	.059
M22759/43-18-*	18	19 X 30	.050	.070
M22759/43-16-*	16	19 X 29	.057	.078
M22759/43-14-*	14	19 X 27	.072	.095
M22759/43-12-*	12	37 X 28	.089	.112
M22759/43-10-*	10	37 X 26	.112	.136
M22759/43-8-*	8	133 X 29	.169	.195
M22759/43-6-*	6	133 X 27	.213	.241
M22759/43-4-*	4	133 X 25	.268	.310
M22759/43-2-*	2	655 X 30	.340	.405
M22759/43-1-*	1	817 X 30	.380	.445
M22759/43-01-*	0	1045 X 30	.425	.485
M22759/43-02-*	00	1330 X 30	.475	.545



## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, SOLDERLESS WRAP, POLYETHYLENE TEREPHTHALATE - POLYESTER  
LAMINATED TAPE INSULATION, SILVER COATED SOLID CONDUCTOR

MIL-W-81822/1

SCOPE: THIS SECTION COVERS BOTH INSULATED AND UNINSULATED SOLID WIRE WIRE DESIGNED FOR SOLDERLESS WRAP CONNECTIONS IN ELECTRICAL AND ELECTRONIC DEVICES AND EQUIPMENT. THE TERMINATIONS OF THE WIRE ARE TO BE MADE WITH HAND OR AUTOMATIC TOOLS WHICH WRAP THE WIRE UNDER TENSION, AROUND TERMINAL PINS TO FORM SOLDERLESS WRAPPED CONNECTIONS. THE INTENDED USE IS IN PANEL WIRING OF ELECTRICAL AND ELECTRONIC EQUIPMENT EMPLOYING SOLDERLESS WRAPPED ELECTRICAL CONNECTIONS.

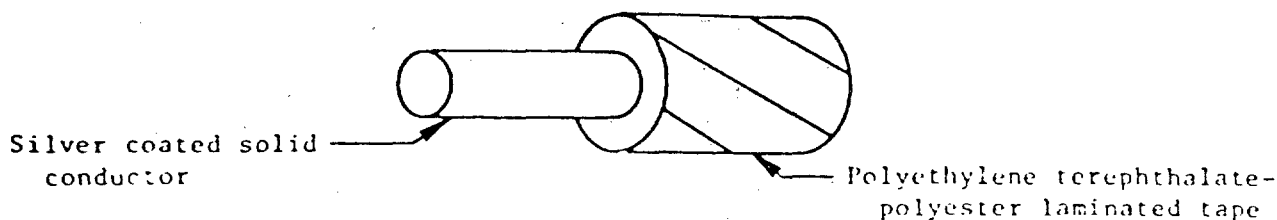
PART NUMBER: M81822/1A309

	<u>M81822</u>	<u>/1</u>	<u>A30</u>	<u>9</u>
MILITARY SPECIFICATION NUMBER	_____	_____	_____	_____
SPECIFICATION SLASH SHEET NUMBER	_____	_____	_____	_____
TYPE AND AWG SIZE	A - SOFT OR ANNEALED COPPER SOLID B - SOFT OR ANNEALED OXYGEN FREE C - HIGH STRENGTH, HIGH CONDUCTIVITY COPPER ALLOY SOLID WIRE			
INSULATION COLOR CODE	0 - BLACK 2 - RED 9 - WHITE			

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, SOLDERLESS WRAP, POLYETHYLENE TEREPHTHALATE - POLYESTER  
LAMINATED TAPE INSULATION, SILVER COATED SOLID CONDUCTOR

MIL-W-81822/1



TEMPERATURE: 105°C MAXIMUM

VOLTAGE RATING: 300 VOLTS(RMS)

INSULATION RESISTANCE: 500 MEGOHMS/1000 FEET(MIN)

TABLE I. PART NUMBER AND WIRE SIZE.

PART NUMBER	WIRE SIZE (AWG)	FINISHED WIRE DIAMETER INCHES
M81822/1-X30-*	30	0.0195
M81822/1-X30V*	30	0.0180
M81822/1-X28-*	28	0.0265
M81822/1-X28V*	28	0.0255
M81822/1-X26-*	26	0.0295
M81822/1-X26V*	26	0.0265
M81822/1-X24-*	24	0.0340
M81822/1-X22-*	22	0.0390
M81822/1-X20-*	20	0.0460
M81822/1-X18-*	18	0.0540

"X" - REPLACED BY TYPE DESIGNATOR

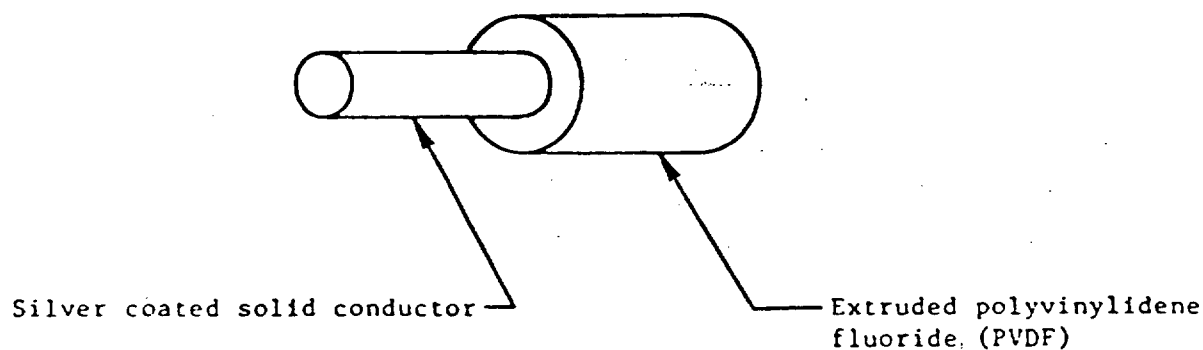
"\*" - REPLACED BY INSULATION COLOR CODE

"V" - VARIATION OF DIAMETER

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, SOLDERLESS WRAP, EXTRUDED POLYVINYDENE FLUORIDE (PVDF)  
INSULATION, SILVER COATED SOLID CONDUCTOR

MIL-W-81822/3



TEMPERATURE: 135°C MAXIMUM

VOLTAGE RATING: 300 VOLTS(RMS)

INSULATION RESISTANCE: 300 MEGOHMS/1000 FEET(MIN)

TABLE I. PART NUMBER AND WIRE SIZE.

PART-NUMBER	WIRE SIZE (AWG)	FINISHED WIRE DIAMETER INCHES
M81822/3-X30-*	30	0.0195
M81822/3-X28-*	28	0.0265
M81822/3-X28V*	28	0.0230
M81822/3-X26-*	26	0.0295
M81822/3-X26V*	26	0.0260
M81822/3-X24-*	24	0.0340
M81822/3-X24V*	24	0.0300
M81822/3-X22-*	22	0.0390
M81822/3-X20-*	20	0.0460
M81822/3-X18-*	18	0.0540

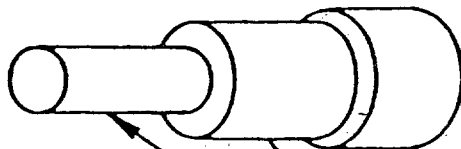
"X" - REPLACED BY TYPE DESIGNATOR

"\*" - REPLACED BY INSULATION COLOR CODE

"V" - VARIATION OF DIAMETER

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, SOLDERLESS WRAP, POLYIMIDE COATING OVER EXTRUDED  
POLYTETRAFLUOROETHYLENE (PTFE) INSULATION, SILVER COATED CONDUCTOR

MIL-W-81822/4

Silver coated solid conductor

Extruded polytetrafluoroethylene (PTFE)

Polyimide coating  
0.001

TEMPERATURE: 200°C MAXIMUM

VOLTAGE RATING: 300 VOLTS(RMS)

INSULATION RESISTANCE: 2500 MEGOHMS/1000 FEET(MIN)

TABLE I. PART NUMBER AND WIRE SIZE.

PART NUMBER	WIRE SIZE (AWG)	FINISHED WIRE DIAMETER INCHES
M81822/4-X30-*	30	0.0195
M81822/4-X28-*	28	0.0265
M81822/4-X26-*	26	0.0295
M81822/4-X24-*	24	0.0340
M81822/4-X22-*	22	0.0390
M81822/4-X20-*	20	0.0460
M81822/4-X18-*	18	0.0540

"X" - REPLACED BY TYPE DESIGNATOR

"\*" - REPLACED BY INSULATION COLOR CODE

## MIL-STD-242J(NAVY), PART 10

WIRE, ELECTRICAL, SOLDERLESS WRAP, UNINSULATED, SILVER COATED  
SOLID CONDUCTOR

MIL-W-81822/10

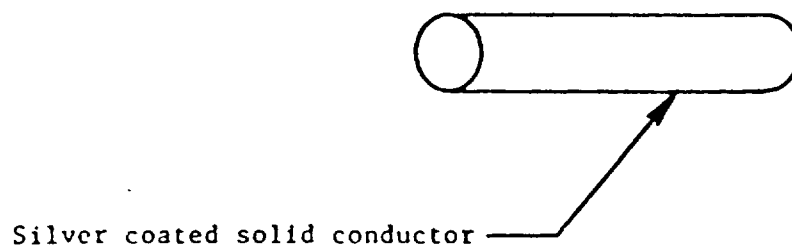


TABLE I. PART NUMBER AND WIRE SIZE.

PART NUMBER	WIRE SIZE (AWG)
M81822/10-X30	30
M81822/10-X28	28
M81822/10-X26	26
M81822/10-X24	24
M81822/10-X22	22
M81822/10-X20	20
M81822/10-X18	18

"X" - REPLACED BY TYPE DESIGNATOR

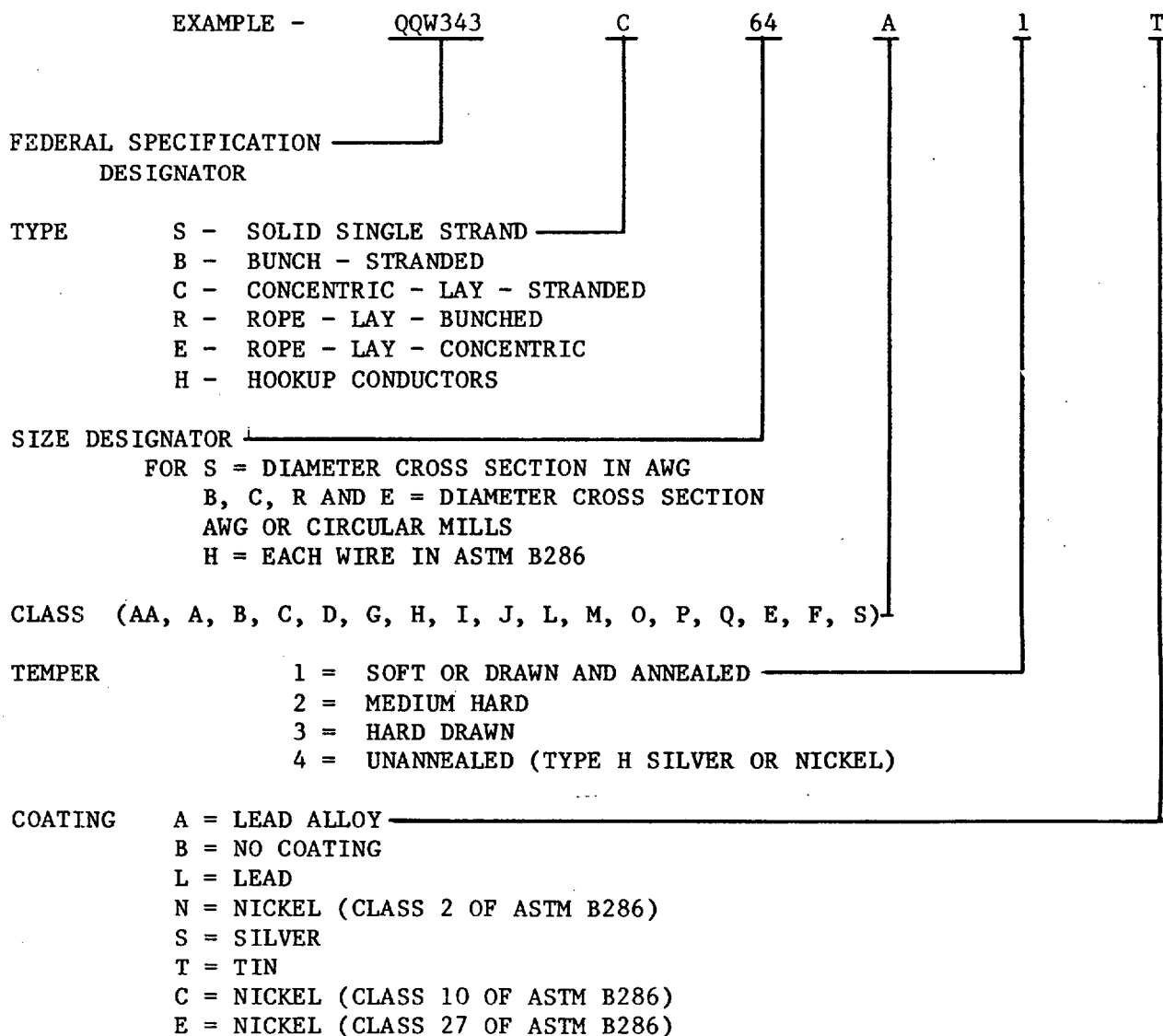
## MIL-STD-242J(NAVY), PART 10

## WIRE, ELECTRICAL, COPPER (UNINSULATED)

QQ-W-343

SCOPE: THIS SECTION COVERS SOLID, BUNCH-STRNDED, CONCENTRIC - LAY - STRANDED AND ROPE - LAY - STRANDED ROUND ELECTRICAL WIRE FABRICATED FROM COPPER. THESE WIRES ARE INTENDED TO BE USED FOR ELECTRICAL CONDUCTORS IN EQUIPMENT AND MAY BE USED AS CONDUCTORS IN ELECTRICAL CABLES.

PART NUMBER: QQW343C64A1T



## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

## 1. DOCUMENT NUMBER

MIL-STD-242J, PT. 10

## 2. DOCUMENT TITLE

ELECTRONIC EQUIPMENT PARTS, SELECTED STANDARDS,  
WIRE AND CABLE

## 3a. NAME OF SUBMITTING ORGANIZATION

## 4. TYPE OF ORGANIZATION (Mark one)

☐

VENDOR

☐

USER

☐

MANUFACTURER

☐

OTHER (Specify): \_\_\_\_\_

## b. ADDRESS (Street, City, State, ZIP Code)

## 5. PROBLEM AREAS

## a. Paragraph Number and Wording:

## b. Recommended Wording:

## c. Reason/Rationale for Recommendation:

## 6. REMARKS

## 7a. NAME OF SUBMITTER (Last, First, MI) - Optional

## b. WORK TELEPHONE NUMBER (Include Area Code) - Optional

## c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional

## 8. DATE OF SUBMISSION (YYMMDD)

DD FORM 1426  
82 MAR

PREVIOUS EDITION IS OBSOLETE.

TO DETACH THIS FORM, CUT ALONG THIS LINE.)