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SHIPBOARD MARKETS

- power cables
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Brand Rex
BRAND

M24643/5, Type LSMDU

600V, Nineteen Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- Multi AWG (see chart) uncoated copper
- Class B, C, D stranding per ASTM B174

Insulation:

- Cross-Linked Polyethylene (XLPE)
- Color code: Method 1

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSMDU-XX M24643/5-XXXX XLPOLYO
YEAR OF MFG

Options:

- Braided Aluminum Armor (IAW M24643/5)
- White Jacket

Applications:

- Cables are multi conductor constructions suitable for watertight, non-flexing service.
- For use as shipboard degaussing type cables when magnetic fields are of concern.

Features and Benefits:

- Watertight for mission-critical environments.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/5

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/5 600V, Nineteen Conductor, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/5	Conductor Size	Min. AVG. Insul. Thickness	Min. AVG. Jacket Thickness	Max. Overall Diameter	Max. Cond. Resistance Per 1000 Ft.	Min. Insul. Resistance Per 1000 Ft.
			AWG and Stranding	Inches	Inches	Inches	Ohms	Megaohms
376820	LSMDU-6 BLK	-01UN	12 (7/.0305)	.028	.060	1.000	1.730	100
376830	LSMDU-14 BLK	-02UN	9 (7/.0432)	.040	.060	1.395	0.868	100
376840	LSMDU-23 BLK	-03UN	7 (7/.0545)	.052	.075	1.765	0.598	100

M24643/14, Type LSSSGU & LSSSGA

1000V, Single Conductor, Unarmored or Armored, Watertight, Low-Smoke

Product Construction:**Conductor:**

- Multi AWG (see chart) uncoated copper
- Class B, C, D stranding per ASTM B8

Insulation:

- Silicone rubber glass tape

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

LSSSGA:

- Same construction as LSSSGU with overall braided aluminum armor

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSSSGU-XX OR LSSSGA-XX
M24643/14-XXXX XL POLYO YEAR OF
MFG

Applications:

- Cables are single conductor constructions, armored or unarmored, suitable for watertight non-flexing service.
- For use in shipboard power, lighting or weapon control system interconnection except where unusual circuit parameters require special type of cable.
- Used for degaussing applications.

Features and Benefits:

- Watertight for mission-critical environments.
- Meet the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/14

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/14 1000V, Single Conductor, Unarmored or Armored, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/14	Conductor Size AWG/MCM /Navy Std. and Stranding	Max. Overall Diameter		Nom. Dia. Over Insul.	Min. AVG. Jacket Thickness	Amps Per Cond. Max.*	
				LSSSGU	LSSSGA			40°C	50°C
				Inches	Inches	Inches	Inches		
563540/373910	LSSSGU/A-50 BLK	-01UN/AN	3 (19/.0526)	.520	.570	.334	.040	149	137
292010	LSSSGU-50 WHT	-01UN	3 (19/.0526)	.520	-	.334	.040	149	137
563550/373920	LSSSGU/A-75 BLK	-02UN/AN	1 (37/.0476)	.602	.652	.407	.040	197	181
290190	LSSSGU-75 WHT	-02UN	1 (37/.0476)	.602	-	.407	.040	197	181
563560/320860	LSSSGU/A-100 BLK	-03UN/AN	0 (61/.0416)	.669	.719	.453	.050	232	214
292020	LSSSGU-100 WHT	-03UN	0 (61/.0416)	.669	-	.453	.050	232	214
563570/310520	LSSSGU/A-200 BLK	-04UN/AN	0000 (61/.0589)	.872	.922	.634	.050	361	332
361570	LSSSGU-200 WHT	-04UN	0000 (61/.0589)	.872	-	.634	.050	361	332
563580/310530	LSSSGU/A-300 BLK	-05UN/AN	300 (91/.0574)	1.001	1.051	.748	.050	467	430
373930	LSSSGU-300 WHT	-05UN	300 (91/.0574)	1.001	-	.748	.050	467	430
563590/563730	LSSSGU/A-400 BLK	-06UN/AN	400 (127/.057)	1.118	1.168	.862	.050	575	530
X330000	LSSSGU-400 WHT	-06UN	400 (127/.057)	1.118	-	.862	.050	575	530
310550/319550	LSSSGU/A-650 BLK	-07UN/AN	650 (127/.0715)	1.371	1.421	1.056	.060	785	722
373940	LSSSGU-650 WHT	-07UN	650 (127/.0715)	1.371	-	1.056	.060	785	722
297470/363570	LSSSGU/A-800 BLK	-08UN/AN	800 (127/.0794)	1.485	1.535	1.170	.060	940	865
373950	LSSSGU-800 WHT	-08UN	800 (127/.0794)	1.485	-	1.170	.060	940	865
563650/373960	LSSSGU/A-1000 BLK	-09UN/AN	1000 (127/.0887)	1.620	1.670	1.300	.060	1090	950
373970	LSSSGU-1000 WHT	-09UN	1000 (127/.0887)	1.620	-	1.300	.060	1090	950

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299

M24643/15, Type LSDSGU

1000V, Two Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- Multi AWG (see chart) uncoated copper
- Class B, C, D stranding per ASTM B8
- Navy Standard - 400

Insulation:

- Sizes 3, 4, 9, 14, 23: Silicone, glass braid and braid covering – Method 1
- Sizes 50-400: Silicone rubber glass tape – Method 5

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX
BRAND LSDSGU-XXX M24643/15-
XXXX XL POLYO YEAR OF MFG

Options:

- Braided Aluminum Armor (IAW M24643/15)

Applications:

- Cables are two conductor constructions suitable for watertight, non-flexing service.
- For use in shipboard power, lighting or weapon control system interconnection except where unusual circuit parameters require special type of cable.
- Used for degaussing applications.

Features and Benefits:

- Watertight for mission-critical environments.
- Meet the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/15

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/15 1000V, Two Conductor, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/15	Conductor Size	Max. Overall Diameter	Nom. Over Outer Ins. Outer Tape	Max. Dia. Over Braid	Min. Dia. Over Ins.	Overall Jacket Thick.	Amps Per Cond. Max.*	
			AWG/Navy Std. and Stranding	Inches	Inches	Inches	Inches	Inches	40°C	50°C
563290	LSDSGU-3 BLK	-01UN	16 (7/.0192)	.391	-	.130	.096	.030	13	12
289220	LSDSGU-3 WHT	-01UN	16 (7/.0192)	.391	-	.130	.096	.030	13	12
563300	LSDSGU-4 BLK	-02UN	14 (7/.0242)	.427	-	.143	.112	.030	22	20
289230	LSDSGU-4 WHT	-02UN	14 (7/.0242)	.427	-	.143	.112	.030	22	20
563310	LSDSGU-9 BLK	-03UN	10 (7/.0385)	.544	-	.187	.154	.040	44	41
289240	LSDSGU-9 WHT	-03UN	10 (7/.0385)	.544	-	.187	.154	.040	44	41
563330	LSDSGU-14 BLK	-04UN	9 (7/.0432)	.670	-	.262	.230	.040	60	55
289250	LSDSGU-14 WHT	-04UN	9 (7/.0432)	.670	-	.262	.230	.040	60	55
563340	LSDSGU-23 BLK	-05UN	7 (7/.0545)	.781	-	.310	.271	.050	78	72
289260	LSDSGU-23 WHT	-05UN	7 (7/.0545)	.781	-	.310	.271	.050	78	72
563360	LSDSGU-50 BLK	-06UN	3 (19/.0526)	.911	.334	-	-	.050	126	116
361600	LSDSGU-50 WHT	-06UN	3 (19/.0526)	.911	.334	-	-	.050	126	116
563870	LSDSGU-75 BLK	-07UN	1 (37/.0476)	1.074	.407	-	-	.050	168	155
302960	LSDSGU-75 WHT	-07UN	1 (37/.0476)	1.074	.407	-	-	.050	168	155
563860	LSDSGU-100 BLK	-08UN	0 (61/.0416)	1.167	.453	-	-	.050	199	183
362920	LSDSGU-100 WHT	-08UN	0 (61/.0416)	1.167	.453	-	-	.050	199	183
311730	LSDSGU-200 BLK	-09UN	0000 (61/.0589)	1.583	.634	-	-	.060	308	284
374010	LSDSGU-200 WHT	-09UN	0000 (61/.0589)	1.583	.634	-	-	.060	308	284
353150	LSDSGU-300 BLK	-10UN	300 (91/.0574)	1.841	.748	-	-	.075	413	380
363160	LSDSGU-300 WHT	-10UN	300 (91/.0574)	1.841	.748	-	-	.075	413	380
303760	LSDSGU-400 BLK	-11UN	400 (127/.057)	2.069	.862	-	-	.075	492	453
291990	LSDSGU-400 WHT	-11UN	400 (127/.057)	2.069	.862	-	-	.075	492	453

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299



M24643/16, Type LSTSGU & LSTSGA

1000V, Three Conductor, Unarmored or Armored, Watertight, Low-Smoke

Product Construction:

Conductor:

- Multiple AWG (see chart) uncoated copper
- Class B, C D stranding per ASTM B8
- Navy Standard

Insulation:

- Sizes 3, 4, 9, 14, 23 and 30: Silicone, glass braid and braid covering – Method 1
- Sizes 40 thru 400: Silicone rubber glass tape – Method 5

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

LSTSGA:

- Same construction with overall braided aluminum armor

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSTSGU-XXX OR LSTSGA-XXX
M24643/16-XXXX XL POLYO YEAR OF
MFG

Applications:

- Cables are three conductor constructions, armored or unarmored, suitable for watertight, non-flexing service.
- For use in shipboard power, lighting or weapon control system interconnection except where unusual circuit parameters require special type of cable.
- Used for degaussing applications.

Features and Benefits:

- Watertight for mission-critical environments.
- Meet the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/16

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/16 1000V, Three Conductor, Unarmored or Armored, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/16	Conductor Size	Max. Overall Diameter		Nom. Dia. Over Outer Ins. Tape	Min. Dia. Over Ins.	Max. Dia. Over Braid	Min. AVG. Jacket Thickness	Amps Per Cond. Max.*	
			AWG/ Navy Std and Stranding	LSTSGU	LSTSGA					Inches	Inches
				Inches	Inches						
562650/565540	LSTSGU/A-3 BLK	-01UN/AN	16 (7/.0192)	.411	.461	---	.096	.130	.030	11	10
289850	LSTSGU-3 WHT	-01UN	16 (7/.0192)	.411	---	---	.096	.130	.030	11	10
562660/565550	LSTSGU/A-4 BLK	-02UN/AN	14 (7/.0242)	.449	.499	---	.112	.143	.030	18	17
289860	LSTSGU-4 WHT	-02UN	14 (7/.0242)	.449	---	---	.112	.143	.030	18	17
562670/565570	LSTSGU/A-9 BLK	-03UN/AN	10 (7/.0385)	.575	.625	---	.154	.187	.040	39	36
289870	LSTSGU-9 WHT	-03UN	10 (7/.0385)	.575	---	---	.154	.187	.040	39	36
562680/565580	LSTSGU/A-14 BLK	-04UN/AN	9 (7/.0432)	.718	.768	---	.230	.262	.040	51	47
289880	LSTSGU-14 WHT	-04UN	9 (7/.0432)	.718	---	---	.230	.262	.040	51	47
562690/565590	LSTSGU/A-23 BLK	-05UN/AN	7 (7/.0545)	.812	.862	---	.271	.310	.050	69	64
289890	LSTSGU-23 WHT	-05UN	7 (7/.0545)	.812	---	---	.271	.310	.050	69	64
562510/X562530	LSTSGU/A-30 BLK	-055UN/AN	30 (19/.040)	.852	.902	---	.285	.335	.050	---	---
374170	LSTSGU-30 WHT	-055UN	30 (19/.040)	.852	---	---	.285	.335	.050	---	---
374180/374190	LSTSGU/A-40 BLK	-058UN/AN	4 (19/.0469)	.900	.950	.310	---	---	.050	---	---
374200	LSTSGU-40 WHT	-058UN	4 (19/.0469)	.900	---	.310	---	---	.050	---	---
562700/567350	LSTSGU/A-50 BLK	-06UN/AN	3 (19/.0526)	.969	1.019	.334	---	---	.050	110	101
290180	LSTSGU-50 WHT	-06UN	3 (19/.0526)	.969	---	.334	---	---	.050	110	101
374210/374220	LSTSGU/A-60 BLK	-065UN/AN	2 (37/.0424)	1.060	1.110	.365	---	---	.050	---	---
374230	LSTSGU-60 WHT	-065UN	2 (37/.0424)	1.060	---	.365	---	---	.050	---	---
562710/312560	LSTSGU/A-75 BLK	-07UN/AN	1(37/.0476)	1.134	1.185	.407	---	---	.050	148	136

M24643/16, Type LSTSGU & LSTSGA

1000V, Three Conductor, Unarmored or Armored, Watertight, Low-Smoke

M24643/16 1000V, Three Conductor, Unarmored or Armored, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/16	Conductor Size	Max. Overall Diameter		Nom. Dia. Over Outer Ins. Tape	Min. Dia. Over Ins.	Max. Dia. Over Braid	Min. AVG. Jacket Thickness	Amps Per Cond. Max.*	
			AWG/ Navy Std and Stranding	LSTSGU	LSTSGA						
				Inches	Inches					40°C	50°C
290170	LSTSGU-75 WHT	-07UN	1(37/.0476)	1.134	---	.407	---	---	.050	148	136
X562720/298390	LSTSGU/A-100 BLK	-08UN/AN	0 (61/.0416)	1.266	1.316	.453	---	---	.060	174	160
290160	LSTSGU-100 WHT	-08UN	0 (61/.0416)	1.266	---	.453	---	---	.060	174	160
374240/374250	LSTSGU/A-125 BLK	-085UN/AN	125 (61/.045)	1.408	1.458	.507	---	---	.060	---	---
374260	LSTSGU-125 WHT	-085UNN	125 (61/.045)	1.408	---	.507	---	---	.060	---	---
562740/360850	LSTSGU/A-150 BLK	-09UN/AN	000 (61/.0524)	1.515	1.565	.557	---	---	.060	235	216
290150	LSTSGU-150 WHT	-09UN	000 (61/.0524)	1.515	---	.557	---	---	.060	235	216
562750/376810	LSTSGU/A-200 BLK	-10UN/AN	0000 (61/.0589)	1.669	1.719	.634	---	---	.060	271	250
290140	LSTSGU-200 WHT	-10UN	0000 (61/.0589)	1.669	---	.634	---	---	.060	271	250
374270/374280	LSTSGU/A-250 BLK	-105UN/AN	250 (61/.064)	1.794	1.844	.697	---	---	.060	---	---
374290	LSTSGU-250 WHT	-105UN	250 (61/.064)	1.794	---	.697	---	---	.060	---	---
562760/376800	LSTSGU/A-300 BLK	-11UN/AN	300 (91/.0574)	1.957	2.007	.748	---	---	.075	348	320
290130	LSTSGU-300 WHT	-11UN	300 (91/.0574)	1.957	---	.748	---	---	.075	348	320
374300/374310	LSTSGU/A-350 BLK	-115UN/AN	350 (91/.062)	2.073	2.123	.802	---	---	.075	---	---
374320	LSTSGU-350 WHT	-115UN	350 (91/.062)	2.073	---	.802	---	---	.075	---	---
562770/300330	LSTSGU/A-400 BLK	-12UN/AN	400 (127/.057)	2.203	2.253	.862	---	---	.075	435	400
292240	LSTSGU-400 WHT	-12UN	400 (127/.057)	2.203	---	.862	---	---	.075	435	400

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299

M24643/17, Type LSFSGU

1000V, Four Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- Multi AWG (see chart) uncoated copper
- Class B, C, D stranding per ASTM B8

Insulation:

- Sizes 3, 4, 9, 14 and 23: Silicone, glass braid, and braid covering – Method 1
- Sizes 50, 75, 100, 150 and 200: Silicone rubber glass tape – Method 5

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSFSGU-XXX M24643/17-XXXX XL
POLYO YEAR OF MFG

Options:

- Braided Aluminum Armor (IAW M24643/17)

Applications:

- Cables are four conductor constructions suitable for watertight, non-flexing service.
- For use in shipboard power, lighting or weapon control system interconnection except where unusual circuit parameters require special type of cable.
- Used for degaussing applications.

Features and Benefits:

- Watertight for mission-critical environments.
- Meet the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/17

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/17 1000V, Four Conductor, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/17	Conductor Size	Max. Overall Diameter	Nom. Dia. Over Outer Ins. Tape	Min. Dia. Over Ins.	Max. Dia. Over Braid	Min. AVG. Jacket Thickness	Max. Amps Per Cond. *	
			AWG/Navy Std. and Stranding	Inches	Inches	Inches	Inches	Inches	40°C	50°C
562330	LSFSGU-3 BLK	-01UN	16 (7/.0192)	.447	-	.096	.130	.030	11	10
289490	LSFSGU-3 WHT	-01UN	16 (7/.0192)	.447	-	.096	.130	.030	11	10
562340	LSFSGU-4 BLK	-02UN	14 (7/.0242)	.513	-	.112	.143	.040	18	17
289480	LSFSGU-4 WHT	-02UN	14 (7/.0242)	.513	-	.112	.143	.040	18	17
562350	LSFSGU-9 BLK	-03UN	10 (7/.0385)	.630	-	.154	.187	.040	39	36
289500	LSFSGU-9 WHT	-03UN	10 (7/.0385)	.630	-	.154	.187	.040	39	36
562360	LSFSGU-23 BLK	-04UN	7 (7/.0545)	.890	-	.271	.310	.050	69	64
374440	LSFSGU-23 WHT	-04UN	7 (7/.0545)	.890	-	.271	.310	.050	69	64
562380	LSFSGU-50 BLK	-05UN	3 (19/.0526)	1.050	.334	-	-	.050	110	101
292000	LSFSGU-50 WHT	-05UN	3 (19/.0526)	1.050	.334	-	-	.050	110	101
562390	LSFSGU-75 BLK	-06UN	1 (37/.0476)	1.240	.407	-	-	.050	148	136
361580	LSFSGU-75 WHT	-06UN	1 (37/.0476)	1.240	.407	-	-	.050	148	136
562400	LSFSGU-100 BLK	-07UN	0 (61/.0416)	1.358	.453	-	-	.060	174	160
361590	LSFSGU-100 WHT	-07UN	0 (61/.0416)	1.358	.453	-	-	.060	174	160
562410	LSFSGU-150 BLK	-08UN	000 (61/.0524)	1.625	.557	-	-	.060	235	216
290210	LSFSGU-150 WHT	-08UN	000 (61/.0524)	1.625	.557	-	-	.060	235	216
562420	LSFSGU-200 BLK	-09UN	0000 (61/.0589)	1.820	.634	-	-	.060	271	250
376140	LSFSGU-200 WHT	-09UN	0000 (61/.0589)	1.820	.634	-	-	.060	271	250

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299



Phone: (888) 593-3355

Fax: (859) 572-8463

www.generalcable.com

M24643/22, Type LS5KVTSGU & LS5KVTSGA

5000V, Three Conductor, Unarmored or Armored, Watertight, Low-Smoke

Product Construction:

Conductor:

- Multi AWG (see chart) uncoated copper
- Class B, C & D stranding per ASTM B8
- Navy Standard - 400

Insulation:

- Silicone rubber glass tape
- Color Code: Method 5

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK)

Aarmor:

LS5KVTSGA

- Same construction as LS5KVTSGU with overall braided aluminum armor

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LS5KVTSGU-XXX OR LS5KVTSGA-XXX
M24643/22-XXXX XL POLYO YEAR OF
MFG

Options:

- White Jacket

Applications:

- Cables are three conductor constructions, armored or unarmored, suitable for watertight, non-flexing service.
- For use in shipboard power, lighting, or weapon control system interconnection.

Features and Benefits:

- Watertight for mission-critical environments.
- Meet the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/22

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/22 5000V, Three Conductor, Unarmored or Armored, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/22	Conductor Size		Max. Overall Diameter		Nom. Dia. Over Outer Ins. Tape	Max. Amps Per Cond.*	
			Navy Stand.	AWG and Stranding	LS5KVTSGU	LS5KVTSGA		Inches	40°C
					Inches	Inches			
374560/374570	LS5KVTSGU/A-100 BLK	-01UN/AN	-	0 (61/.0416)	1.74	1.79	.675	174	160
297380/374580	LS5KVTSGU/A-150 BLK	-02UN/AN	-	000 (61/.0524)	1.95	2.00	.769	235	216
297390/374590	LS5KVTSGU/A-250 BLK	-03UN/AN	-	250 (61/.064)	2.22	2.27	.889	315	290
297370/374600	LS5KVTSGU/A-350 BLK	-04UN/AN	-	350 (91/.062)	2.45	2.50	.994	391	360
374610/374620	LS5KVTSGU/A-400 BLK	-05UN/AN	400 (127/.057)	-	2.60	2.65	1.054	435	400

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299

M24643/23, Type LSTTSU

300V, One and One Half thru Forty Pair, 22 AWG, Watertight, Low-Smoke

Product Construction:

Conductor:

- 22 AWG uncoated copper
- Class K stranding per ASTM B174

Insulation:

- Extruded silicone rubber / Polyamide
- Color code: Method 6

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSTTSU-XX M24643/23-XXXX XL POLYO
YEAR OF MFG

Options:

- Braided Aluminum Armor (IAW M24643/23)

Applications:

- Cables are multi-pair constructions suitable for watertight, non-flexing service.
- For use in shipboard interconnect audio, telephone, call bell, announcing, and alarm systems.
- May also be used for other interior communications and weapon control systems provided the ampere rating of the cable and voltage drop for the system are not exceeded.

Features and Benefits:

- Watertight for mission-critical environments.
- Meet the 1-hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/23

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/23 300V, One and One Half thru Forty Pair, 22(7/30) AWG, Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/23	# of Pairs	Max. Overall Diameter	Min. AVG. Jacket Thickness
				Inches	Inches
562780	LSTTSU-1½ * BLK	-01UN	1½	.330	.050
366120	LSTTSU-1½ * WHT	-01UN	1½	.330	.050
562790	LSTTSU-3 BLK	-02UN	3	.450	.050
372340	LSTTSU-3 WHT	-02UN	3	.450	.050
562800	LSTTSU-5 BLK	-03UN	5	.540	.050
366130	LSTTSU-5 WHT	-03UN	5	.540	.050
562810	LSTTSU-10 BLK	-04UN	10	.675	.062
289960	LSTTSU-10 WHT	-04UN	10	.675	.062
562820	LSTTSU-15 BLK	-05UN	15	.800	.062
289970	LSTTSU-15 WHT	-05UN	15	.800	.062
562840	LSTTSU-20 BLK	-06UN	20	.870	.062
289980	LSTTSU-20 WHT	-06UN	20	.870	.062
562850	LSTTSU-30 BLK	-07UN	30	1.080	.075
289990	LSTTSU-30 WHT	-07UN	30	1.080	.075
562860	LSTTSU- 40 BLK	-08UN	40	1.200	.075
374630	LSTTSU- 40 WHT	-08UN	40	1.200	.075

* LSTTSU-1½ is comprised of three conductors cabled together to form a triad.

M24643/43, Type LS2SJ, LS3SJ, LS4SJ

600V, Two, Three and Four Conductors, Overall Shield, Non-Watertight, Low-Smoke

Product Construction:

Conductor:

- 14 AWG and smaller - Tin-coated copper per ASTM B286; 12 AWG and larger – bare copper
- Class B stranding per ASTM B8

Insulation:

- Cross-Linked Polyethylene (XLPE)
- Color code: Method 3

Shield:

- Braided tin-coated copper

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LS2SJ-XX OR LS3SJ-XX OR LS4SJ-XX
M24643/43-XXXX XL POLYO YEAR OF
MFG

Options:

- Braided Aluminum Armor (IAW M24643/43)

Applications:

- Cables are multi-conductor, shielded constructions, suitable for non-watertight, non-flexing service.
- For use in shipboard combat systems, interior communications, lighting, and power circuits, where shielding of 400 Hz is required.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.
- Conforms to the surface transfer impedance and EMP response time requirements.

Compliances:

- M24643/43

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/43 600V, Two, Three and Four Conductors, Overall Shield, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/43	Conductor Size	# of Cond.	Overall Diameter		Max Amps Per Cond.	
			AWG and Stranding		Min. Inches	Max. Inches	40°C	50°C
561290	LS2SJ-22 BLK	-01UO	22(19/34)	2	.261	.275	3	2
294820	LS2SJ-22 WHT	-01UO	22(19/34)	2	.261	.275	3	2
561300	LS2SJ-20 BLK	-02UO	20(19/32)	2	.273	.290	6	5
288430	LS2SJ-20 WHT	-02UO	20(19/32)	2	.273	.290	6	5
561330	LS2SJ-18 BLK	-03UO	18(19/30)	2	.295	.310	10	8
288420	LS2SJ-18 WHT	-03UO	18(19/30)	2	.295	.310	10	8
561340	LS2SJ-16 BLK	-04UO	16(19/29)	2	.309	.325	13	11
288440	LS2SJ-16 WHT	-04UO	16(19/29)	2	.309	.325	13	11
561350	LS2SJ-14 BLK	-05UO	14(19/27)	2	.337	.350	16	14
370950	LS2SJ-14 WHT	-05UO	14(19/27)	2	.337	.350	16	14
561590	LS2SJ-12 BLK	-06UO	12 (7/.0305)	2	.417	.430	23	17
364170	LS2SJ-12 WHT	-06UO	12 (7/.0305)	2	.417	.430	23	17
561370	LS2SJ-11 BLK	-07UO	10 (7/.0385)	2	.447	.460	31	25
364970	LS2SJ-11 WHT	-07UO	10 (7/.0385)	2	.447	.460	31	25
561610	LS2SJ-9 BLK	-08UO	9 (7/.0435)	2	.525	.545	42	35
354960	LS2SJ-9 WHT	-08UO	9 (7/.0435)	2	.525	.545	42	35
561620	LS2SJ-7 BLK	-09UO	7 (7/.0545)	2	.600	.615	56	49
374820	LS2SJ-7 WHT	-09UO	7 (7/.0545)	2	.600	.615	56	49
561410	LS3SJ-22 BLK	-10UO	22(19/34)	3	.271	.285	3	2
363940	LS3SJ-22 WHT	-10UO	22(19/34)	3	.271	.285	3	2
561420	LS3SJ-20 BLK	-11UO	20(19/32)	3	.284	.300	6	5



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M24643/43, Type LS2SJ, LS3SJ, LS4SJ

600V, Two, Three and Four Conductors, Overall Shield, Non-Watertight, Low-Smoke

M24643/43 600V, Two, Three and Four Conductors, Overall Shield, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/43	Conductor Size	# of Cond.	Overall Diameter		Max Amps Per Cond.	
			AWG and Stranding		Min. Inches	Max. Inches	40°C	50°C
360810	LS3SJ-20 WHT	-11UO	20(19/32)	3	.284	.300	6	5
561430	LS3SJ-18 BLK	-12UO	18(19/30)	3	.308	.325	9	7
289400	LS3SJ-18 WHT	-12UO	18(19/30)	3	.308	.325	9	7
561440	LS3SJ-16 BLK	-13UO	16(19/29)	3	.323	.340	11	10
289390	LS3SJ-16 WHT	-13UO	16(19/29)	3	.323	.340	11	10
561450	LS3SJ-14 BLK	-14UO	14(19/27)	3	.353	.370	14	12
363720	LS3SJ-14 WHT	-14UO	14(19/27)	3	.353	.370	14	12
561690	LS3SJ-12 BLK	-15UO	12 (7/.0305)	3	.440	.455	21	15
374830	LS3SJ-12 WHT	-15UO	12 (7/.0305)	3	.440	.455	21	15
561710	LS3SJ-9 BLK	-16UO	9 (7/.0435)	3	.594	.620	33	27
353000	LS3SJ-9 WHT	-16UO	9 (7/.0435)	3	.594	.620	33	27
561510	LS4SJ-20 BLK	-17UO	20(19/32)	4	.303	.320	6	5
349970	LS4SJ-20 WHT	-17UO	20(19/32)	4	.303	.320	6	5
561520	LS4SJ-16 BLK	-18UO	16(19/29)	4	.346	.360	9	7
289420	LS4SJ-16 WHT	-18UO	16(19/29)	4	.346	.360	9	7
561530	LS4SJ-14 BLK	-19UO	14(19/27)	4	.380	.395	11	9
365450	LS4SJ-14 WHT	-19UO	14(19/27)	4	.380	.395	11	9

Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299

M24643/24, Type LSTCKXN & LSTCTXN

One Pair, 16 AWG and 21 AWG, Armored, Non-Watertight, Low-Smoke

Product Construction:

Conductor:

- 16 AWG & 21 AWG thermocouple in accordance with ANSI MC96.1
- LSTCKXN - One each of chromel and alumel
- LSTCKXN- One each of copper and constantan

Insulation:

- Extruded silicone rubber/ glass braid / braid covering
- Color Code: Method 4

Jacket:

- Silicone Rubber – Orange

Armor:

- Braided Aluminum

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSTCKXN-XX OR LSTCTXN-XX
M24643/24-XXXX XL POLYO YEAR OF
MFG

Applications:

- Cables are one pair armored thermocouple suitable for non-watertight, non-flexing service.
- For use in shipboard Type K and T thermocouple and pyrometer applications.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Meet the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/24

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/24, One Pair, 16(7/.0201) AWG and 21(7/.0113) AWG, Armored, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/24	Conductor Size	# of Pairs	Nom. Dia. Over Insul.	Max. Dia. Over Braid Covering	Min. AVG. Overall Jacket Thickness	Max. Overall Dia.
			AWG and Stranding		Inches	Inches	Inches	Inches
381350	LSTCJXN-3	-01AN	7/.0201	3	.100	.125	.050	.742
381360	LSTCJXN-7	-02AN	7/.0201	7	.100	.125	.062	.983
381370	LSTCJXN-12	-03AN	7/.0201	12	.100	.125	.062	1.269
381050	LSTCKXN-1	-04AN	7/.0201	1	.100	.125	.038	.456
381380	LSTCKXN-3	-05AN	7/.0201	3	.100	.125	.050	.742
381390	LSTCKXN-7	-06AN	7/.0201	7	.100	.125	.062	.983
381400	LSTCKXN-12	-07AN	7/.0201	12	.100	.125	.062	1.269
381060	LSTCTXN-1	-08AN	7/.0113	11	.065	.085	.038	.350
381410	LSTCTXN-3	-09AN	7/.0113	3	.065	.085	.038	.552
381420	LSTCTXN-7	-10AN	7/.0113	7	.065	.085	.050	.731
381430	LSTCTXN-12	-11AN	7/.0113	12	.065	.085	.063	.964



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M24643/25, Type LSPI

Three, Seven and Twelve Shielded Pair, 18 AWG, Armored, Non-Watertight, Low-Smoke

Product Construction:

Conductor:

- 18 AWG nickel-coated copper
- Class B stranding per ASTM B8

Insulation:

- Extruded silicone rubber / glass braid / braid covering
- Color code: Method 4

Shield:

- Braided uncoated copper

Jacket:

- Silicone rubber – Orange

Armor:

- Braided aluminum

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX
BRAND LSPI-XX M24643/25-XXXX
XL POLYO YEAR OF MFG

Applications:

- Cables are shielded and armored multi-pair constructions suitable for high temperature non-watertight, non-flexing service.
- For use in shipboard electronic and instrumentation system interconnectors such as position indication applications.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Meets the 1-hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/25

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/25, Three, Seven and Twelve Shielded Pair, 18(7/.0152) AWG, Armored, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/25	# of Pairs	Min. Avg. Overall Jacket Thickness	Max. Overall Diameter
				Inches	Inches
564050	LSPI-3	-01AN	3	.050	.685
564060	LSPI-7	-02AN	7	.063	.900
564070	LSPI-12	-03AN	12	.063	1.155

M24643/26, Type LSDPSN, LSTPSN, LSFPSN, LS7PSN

600V, Two thru Seven Conductor, Armored, Non-Watertight, Low-Smoke

Product Construction:

Conductor:

- Multi AWG (see chart) Nickel-coated copper
- Class B and C stranding per ASTM B8

Insulation:

- Extruded silicone rubber / glass braid / braid covering
- Color code: Method 4

Jacket:

- Silicone Rubber – Orange

Armor:

- Braided aluminum

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSDPSN-XX, LSTPSN-XX, LSFPSN-XX
OR LS7PSN-XX M24643/26-XXXX XL
POLYO YEAR OF MFG

Applications:

- Cables are multi conductor armored constructions suitable for high temperature, non-watertight, non-flexing service.
- For use in shipboard interconnect of lighting and power systems.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Meets the 1 hour fire electrical circuit integrity requirements.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/26

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/26 600V, Two thru Seven Conductor, Armored, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/26	Conductor Size	# of Cond.	Min. Dia. Over Insul.	Max. Dia. Over Braid Covering	Min. AVG. Jacket Thick.	Max. Overall Dia.	Max Amps Per Cond.*
			AWG and Stranding		Inches	Inches	Inches	Inches	40°C
381070	LSDPSN-3	-01AN	16 (7/.0192)	2	.100	.125	.038	.455	10
381080	LSDPSN-4	-02AN	14 (7/.0242)	2	.116	.141	.038	.489	20
381090	LSDPSN-6	-03AN	12 (7/.0305)	2	.143	.170	.050	.585	28
381100	LSDPSN-9	-04AN	10 (7/.0385)	2	.166	.193	.050	.628	41
381110	LSDPSN-14	-05AN	9 (7/.0432)	2	.200	.230	.063	.730	54
381120	LSTPSN-3	-06AN	16 (7/.0192)	3	.100	.125	.038	.475	10
381130	LSTPSN-4	-07AN	14 (7/.0242)	3	.116	.141	.050	.553	17
381140	LSTPSN-6	-08AN	12 (7/.0305)	3	.143	.170	.050	.620	23
381150	LSTPSN-9	-09AN	10 (7/.0385)	3	.166	.193	.050	.657	36
381160	LSTPSN-14	-10AN	9 (7/.0432)	3	.200	.230	.063	.751	47
381170	LSTPSN-23	-11AN	7 (7/.057)	3	.257	.291	.063	.866	64
381180	LSTPSN-30	-12AN	5 (19/.0417)	3	.310	.348	.075	.989	77
381190	LSFPSN-14	-13AN	9 (7/.0432)	4	.200	.230	.063	.815	42
381200	LS7PSN-6	-14AN	12 (7/.0305)	7	.143	.170	.063	.775	35
381210	LS7PSN-14	-15AN	9 (7/.0432)	7	.200	.230	.063	.986	-

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299

M24643/3, Type LSSHOF, LSDHOF, LSTHOF, LSFHOF

600V, One thru Four Conductor, Non-Watertight, Low-Smoke

Product Construction:

Conductor:

- Multi AWG/Navy sizes (see chart)
uncoated copper
- Class stranding (see chart)

Insulation:

- Ethylene Propylene Rubber (EPR)
- Color code: Method 3

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX
LSSHOF-XX, LSDHOF-XX, LSTHOF-XX
OR LSFHOF-XX M24643/3-XXXX XL
POLYO YEAR OF MFG

Options:

- Braided Aluminum Armor (IAW M24643/3)
- White Jackets

Applications:

- Multi conductor cables are oil resistant constructions suitable for non-watertight, flexing service.
- For use in shipboard power and lighting applications and shall not be used to penetrate a watertight deck or bulkhead.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/3

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/3 600V, One through Four Conductor, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/3	Conductor Size AWG/Navy Std and Stranding	# of Cond.	Min. AVG. Insulation Thickness	Min. AVG. Jacket Wall Thickness	Min. Overall Dia.	Max. Overall Dia.	Amps Per Conductor*	
					Inches	Inches			40°C	50°C
560810	LSSHOF-3 BLK	-01UN	16 (65/34)	1	.031	.030	.195	.210	20	28
560820	LSSHOF-23 BLK	-02UN	7 (210/30)	1	.040	.040	.044	.460	88	80
560830	LSSHOF-60 BLK	-03UN	60 (304/.014)	1	.050	.050	.570	.600	162	153
560880	LSSHOF-150 BLK	-04UN	150 (760/.014)	1	.070	.050	.830	.870	285	263
560860	LSSHOF-200 BLK	-05UN	200 (988/.014)	1	.070	.050	.940	.980	323	306
560870	LSSHOF-250 BLK	-06UN	250 (1254/.014)	1	.070	.070	1.035	1.085	397	362
560850	LSSHOF-500 BLK	-07UN	500 (5054/30)	1	.090	.070	1.380	1.450	602	578
560920	LSDHOF-3 BLK	-10UN	16 (26/30)	2	.031	.040	.405	.425	23	21
561920	LSDHOF-4 BLK	-11UN	14 (41/30)	2	.031	.040	.440	.460	30	28
561930	LSDHOF-6 BLK	-12UN	12 (65/30)	2	.031	.040	.490	.510	41	37
560910	LSDHOF-9 BLK	-13UN	9 (90/.010)	2	.031	.050	.540	.570	50	45
561950	LSDHOF-14 BLK	-14UN	14 (140/.010)	2	.040	.050	.675	.705	60	54
374150	LSDHOF-23 BLK	-15UN	7 (210/30)	2	.040	.050	.820	.860	80	72
560980	LSDHOF-30 BLK	-16UN	5 (336/30)	2	.050	.050	.920	.960	90	83
560990	LSDHOF-83 BLK	-17UN	83 (418/.014)	2	.070	.070	1.390	1.450	169	152
561000	LSDHOF-250 BLK	-18UN	250 (1254/.014)	2	.070	.100	2.000	2.100	322	287
373820	LSDHOF-400 BLK	-19UN	400 (2052/.014)	2	.090	.100	2.400	2.500	422	382
562010	LSTHOF-3 BLK	-20UN	16 (26/30)	3	.031	.040	.430	.450	19	17
562030	LSTHOF-4 BLK	-21UN	14 (41/30)	3	.031	.040	.460	.480	25	23
562040	LSTHOF-6 BLK	-22UN	12 (65/30)	3	.031	.050	.520	.550	33	31
562050	LSTHOF-9 BLK	-23UN	9 (90/.010)	3	.031	.050	.570	.600	38	34
562060	LSTHOF-14 BLK	-24UN	14 (140/.010)	3	.040	.050	.720	.750	50	46
562070	LSTHOF-23 BLK	-25UN	7 (210/30)	3	.040	.050	.860	.900	70	64
561090	LSTHOF-42 BLK	-26UN	42 (209/.014)	3	.070	.070	1.200	1.250	93	86

M24643/3, Type LSSHOF, LSDHOF, LSTHOF, LSFHOF

600V, One thru Four Conductor, Non-Watertight, Low-Smoke

M24643/3 600V, One through Four Conductor, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/3	Conductor Size AWG/Navy Std and Stranding	# of Cond.	Min. AVG. Insulation Thickness	Min. AVG. Jacket Wall Thickness	Min. Overall Dia.	Max. Overall Dia.	Amps Per Conductor*	
					Inches	Inches	Inches	Inches	40°C	50°C
561100	LSTHOF-150 BLK	-27UN	150 (760/.014)	3	.070	.100	1.740	1.820	197	180
562100	LSTHOF-250 BLK	-28UN	250 (1254/.014)	3	.070	.100	2.140	2.240	287	264
561130	LSTHOF-400 BLK	-29UN	400 (2052/.014)	3	.090	.100	2.680	2.800	400	365
562120	LSTHOF-500 BLK	-30UN	500 (5054.30)	3	.090	.100	2.920	3.100	500	450
562150	LSFHOF-3 BLK	-32UN	16 (26/30)	4	.031	.040	.460	.480	17	16
561180	LSFHOF-4 BLK	-33UN	14 (41/30)	4	.031	.040	.520	.550	23	21
561190	LSFHOF-9 BLK	-34UN	9 (90/.010)	4	.031	.050	.630	.660	36	34
561200	LSFHOF-42 BLK	-35UN	42 (209/.014)	4	.070	.070	1.300	1.380	79	73
373830	LSFHOF-60 BLK	-36UN	60 (304/.014)	4	.070	.070	1.430	1.510	95	80
561220	LSFHOF-133 BLK	-37UN	133 (684/.014)	4	.070	.100	1.920	2.000	163	148

*Ampacity calculated at 60 Hz AC (rms) or DC per MIL-HDBK-299

M24643/2, Type LSDCOP & LSTCOP

300V, Two and Three Conductor, 18 AWG and 20 AWG, Non-Watertight, Low-Smoke

Product Construction:

Conductor:

- 18 & 20 AWG uncoated copper
- Class K stranding per ASTM B174

Insulation:

- Cross-Linked Polyethylene (XLPE)
- Color code: Method 3

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO) – Black (BLK) or White (WHT)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSDCOP-XX OR LSTCOP-XX M24643/2-
XXXX XL POLYO YEAR OF MFG

Options:

- Braided Aluminum Armor (IAW M24643/2)

Applications:

- Cables are oil resistant portable cord type constructions suitable for non-watertight, flexing service.
- For use in shipboard electronic, communications and instrumentation applications except where unusual circuit parameters require a special cable type.
- For use only in runs within one compartment or within contiguous compartments and shall not be used to penetrate a watertight deck or bulkhead.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.

Compliances:

- M24643/2

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

M24643/2 300V, Two and Three Conductor, 18(16/30) AWG and 20(10/30) AWG, Non-Watertight, Low-Smoke

Catalog Number	Product Description Type/Size	Military Part No. M24643/2	Conductor Size	# of Cond.	Min. Overall Diameter	Max. Overall Diameter	Min. Voltage Withstand	Max. Cond. Resistance 1000 Ft. @ 25°C
			AWG and Stranding		Inches	Inches	Volts	OHMS
566430	LSDCOP-1 BLK	-01UN	20 (10/30)	2	.235	.250	1000	11.42
349980	LSDCOP-1 WHT	-01UN	20 (10/30)	2	.235	.250	1000	11.42
566440	LSDCOP-1 ½ BLK	-02UN	18 (16/30)	2	.300	.315	1500	9.00
360800	LSDCOP-1 ½ WHT	-02UN	18 (16/30)	2	.300	.315	1500	9.00
566450	LSDCOP-2 BLK	-03UN	18 (16/30)	2	.310	.330	1500	7.16
371940	LSDCOP-2 WHT	-03UN	18 (16/30)	2	.310	.330	1500	7.16
566460	LSTCOP-2 BLK	-04UN	18 (16/30)	3	.325	.345	1500	7.16
373810	LSTCOP-2 WHT	-04UN	18 (16/30)	3	.325	.345	1500	7.16

QUIK-PREP® M24643/14, Type LSSSGU & LSSSGA

1000V, Single Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- 3 AWG, 1 AWG, 1/0 AWG, 4/0 AWG & 300 MCM bare copper per ASTM B3
- Class C stranding per ASTM B8 – 3 AWG & 1 AWG
- Class D stranding per ASTM B8 – 1/0 AWG, 4/0 AWG & 300 MCM
- 400 (127 strand) Navy Standard Conductor

Insulation:

- Silicone Rubber Glass Tape
- Color code: Method 1

Extruded Covering:

- Extruded covering over silicone rubber glass tape – 10 mils nominal
- NAVSEA Qualified

Rip Cord:

- Two (2) Watertight Aramid Yarns - 180° apart
- NAVSEA Qualified

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO)
- Color code: Black (00) or White (09)
i.e. Catalog Number XXXXXX.00 or .09

Optional Armor:

- Braided Aluminum (LSSSGA Type)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSSSGU-XXX OR LSSSGA-XXX M24643/14-
XXXX XL POLYO YEAR OF MFG

Options:

- Other conductor sizes available

Applications:

- For use in shipboard power systems.
- For use in degaussing applications.
- Suitable for watertight, non-flexing service.

Features & Benefits:

- Watertight for mission-critical environments.
- Meets the 1 hour fire electrical circuit integrity requirements per M24643.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.
- Quik-Prep® Extruded Covering: eliminates the need for costly secondary operations that involve materials such as synthetic tubing, insulating varnishes and phase markers (Ref. DOD-STD-2003-1); significantly reduces overall total installed costs; enhances the integrity of the cable insulation system for more reliable performance as a result of fewer preparation requirements.
- Quik-Prep® Rip Cord: effectively separates the jacket from the watertight cable core for easier stripability and quicker cable preparation time; no longitudinal scoring is needed preventing potential damage to the underlying conductor insulation system eliminating repair time, potential scrap and increasing operator safety.

Compliances:

- M24643/14

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

QUIK-PREP® M24643/14 1000V, Single Conductor, Watertight, Low-Smoke

Catalog Number XX = .00 (Black) or .09 (White)	Product Description Type/Size	Military Part No. M24643/14	Cond. (AWG/ MCM)	Max. Cable O.D.	Nom. Dia. Over Outer Ins. Tape Covering	Min. Avg. Jacket Thickness	Max. Cond. Resistance per 1000 ft. at 25°C	Min. Ins. Resistance per 1000 ft.	Max. Dia. Cold Bending Mandrel	Accelerated Services Loading
			Size/ Strand	Inches	Inches	Inches	Ohms	Megohms	Inches	Amperes
364470.XX	LSSSGU-50 Q-P	-01UN	3 (19)	0.520	0.357	0.040	0.209	160	4	240
364480.XX	LSSSGA-50 Q-P	-01AN	3 (19)	0.570	0.357	0.040	0.209	160	4	240
364490.XX	LSSSGU-75 Q-P	-02UN	1 (37)	0.602	0.427	0.040	0.132	135	8	315
299210.XX	LSSSGA-75 Q-P	-02AN	1 (37)	0.652	0.427	0.040	0.132	135	8	315
364500.XX	LSSSGU-100 Q-P	-03UN	1/0 (61)	0.669	0.470	0.050	0.105	125	9	375
364510.XX	LSSSGA-100 Q-P	-03AN	1/0 (61)	0.719	0.470	0.050	0.105	125	9	375
364520.XX	LSSSGU-200 Q-P	-04UN	4/0 (61)	0.872	0.656	0.050	0.0525	90	11	580
299220.XX	LSSSGA-200 Q-P	-04AN	4/0 (61)	0.922	0.656	0.050	0.0525	90	11	580
364530.XX	LSSSGU-300 Q-P	-05UN	300 (91)	1.001	0.765	0.050	0.0370	80	13	750
364540.XX	LSSSGA-300 Q-P	-05AN	300 (91)	1.051	0.765	0.050	0.0370	80	13	750
364550.XX	LSSSGU-400 Q-P	-06UN	400 (127)	1.118	0.882	0.050	0.0268	70	14	925
364560.XX	LSSSGA-400 Q-P	-06AN	400 (127)	1.168	0.882	0.050	0.0268	70	14	925

Ordering information: Example: 364470.09 = LSSSGU-60 Q-P WHT



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QUIK-PREP® M24643/15, TYPE LSDSGU

1000V, Two-Conductors, Watertight, Low-Smoke

Product Construction:

Conductor:

- 3 AWG, 1 AWG, 1/0 AWG, 4/0 AWG, & 300 MCM bare copper per ASTM B3.
- Class C stranding per ASTM B8 – 3 AWG & 1 AWG
- Class D stranding per ASTM B8 – 1/0 AWG, 4/0 AWG & 300 MCM
- 400 (127 strand) Navy Standard Conductor

Insulation:

- Silicone Rubber Glass Tape
- Color code: Method 1

Extruded Covering:

- Extruded covering over silicone rubber glass tape – 10 mils nominal
- NAVSEA Qualified

Rip Cord:

- Two (2) Watertight Aramid Yarns - 180° apart
- NAVSEA Qualified

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO)
- Color code: Black (00) or White (09)
i.e. Catalog Number XXXXXX.00 or .09

Print:

- Including but not limited to:
GENERAL CABLE BRAND
REX BRAND
LSDSGU-XXX M24643/15-XXXX XL POLYO
YEAR OF MFG

Options:

- Armored – Braided Aluminum in accordance with (IAW) M24643/15
- Navy Standard Conductors – 60 & 125
- Other conductor sizes available

Applications:

- For use in shipboard power systems.
- For use in degaussing applications.
- Suitable for watertight, non-flexing service.

Features & Benefits:

- Watertight for mission-critical environments.
- Meets the 1 hour fire electrical circuit integrity requirements per M24643.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.
- Quik-Prep® Extruded Covering: eliminates the need for costly secondary operations that involve materials such as synthetic tubing, insulating varnishes and phase markers (Ref. DOD-STD-2003-1); significantly reduces overall total installed costs; enhances the integrity of the cable insulation system for more reliable performance as a result of fewer preparation requirements.
- Quik-Prep® Rip Cord: effectively separates the jacket from the watertight cable core for easier stripability and quicker cable preparation time; no longitudinal scoring is needed preventing potential damage to the underlying conductor insulation system eliminating repair time, potential scrap and increasing operator safety.

Compliances:

- M24643/15

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

QUIK-PREP® M24643/15 1000V, Two-Conductor, Watertight, Low-Smoke

Catalog Number XX = .00 (Black) or .09 (White)	Product Description Type/Size	Military Part No. M24643/15	Cond. (AWG/ MCM)	Max. Cable O.D.	Nom. Dia. Over Outer Ins. Tape Covering	Min. Avg. Jacket Thickness	Max. Cond. Resistance per 1000 ft. at 25°C	Min. Ins. Resistance per 1000 ft.	Max. Dia. Cold Bending Mandrel	Accelerated Services Loading
			Size/ Strand	Inches	Inches	Inches	Ohms	Megohms	Inches	Amperes
313980.XX	LSDSGU-50 Q-P	-06UN	3 (19)	0.911	0.357	0.050	0.210	200	12	215
314130.XX	LSDSGU-75 Q-P	-07UN	1 (37)	1.074	0.427	0.050	0.134	175	13	285
330790.XX	LSDSGU-100 Q-P	-08UN	1/0 (61)	1.167	0.470	0.050	0.106	160	15	335
364570.XX	LSDSGU-200 Q-P	-09UN	4/0 (61)	1.583	0.656	0.060	0.053	125	20	525
364580.XX	LSDSGU-300 Q-P	-10UN	300 (91)	1.841	0.765	0.075	0.0377	110	23	700
364590.XX	LSDSGU-400 Q-P	-11UN	400 (127)	2.069	0.882	0.075	0.0273	100	25	835

Ordering information: Example: 313980.09 = LSDSGU-50 Q-P WHT



QUIK-PREP® M24643/16, TYPE LSTSGU & LSTSGA

1000V, Three-Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- 3 AWG, 2 AWG, 1 AWG, 1/0 AWG, 3/0 AWG, 4/0 AWG, 300 MCM & 350 MCM bare copper per ASTM B3
- Class C stranding per ASTM B8 – 3 AWG & 1 AWG
- Class D stranding per ASTM B8 – 2 AWG, 1/0 AWG, 3/0 AWG, 4/0 AWG, 300 MCM & 350 MCM
- 125, 250 & 400 (61 & 127 stranding) Navy Standard Conductor

Insulation:

- Silicone Rubber Glass Tape
- Color code: Method 1

Extruded Covering:

- Extruded covering over silicone rubber glass tape – 10 mils nominal
- NAVSEA Qualified

Rip Cord:

- Two (2) Watertight Aramid Yarns - 180° apart
- NAVSEA Qualified

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO)
- Color code: Black (00) or White (09)
i.e. Catalog Number XXXXXX.00 or .09

Optional Armor:

- Braided Aluminum (LSTSGA Type)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND LSTSGU-XXX OR LSTSGA-XXX M24643/16-XXXX XL POLYO
YEAR OF MFG

Options:

- Other conductor sizes available

Applications:

- For use in shipboard power systems.
- For use in degaussing applications.
- Suitable for watertight, non-flexing service.

Features & Benefits:

- Watertight for mission-critical environments.
- Meets the 1 hour fire electrical circuit integrity requirements per M24643.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.
- Quik-Prep® Extruded Covering: eliminates the need for costly secondary operations including materials such as synthetic tubing, insulating varnishes and phase markers (DOD-STD-2003-1); significantly reduces overall labor termination costs; enhances the integrity of the cable insulation system for more reliable performance as a result of fewer preparation requirements.
- Quik-Prep® Rip Cord: effectively separates the jacket from the water tight cable core for easier stripability and quicker cable preparation time; no longitudinal scoring is needed preventing potential damage to the underlying conductor insulation system eliminating repair time, potential scrap and increasing operator safety.

Compliances:

- M24643/16

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

QUIK-PREP® M24643/16 1000V, Three-Conductor, Watertight, Low-Smoke

Catalog Number XX = .00 (Black) or .09 (White)	Product Description Type/Size	Military Part No. M24643/16	Cond. (AWG/ MCM)	Max. Cable O.D.	Nom. Dia. Over Outer Ins. Tape Covering	Min. Avg. Jacket Thickness	Max. Cond. Resistance per 1000 ft. at 25°C	Min. Ins. Resistance per 1000 ft.	Max. Dia. Cold Bending Mandrel	Accelerated Services Loading
			Size/ Strand	Inches	Inches	Inches	Ohms	Megohms	Inches	Amperes
299580.XX	LSTSGU-50 Q-P	-06UN	3 (19)	0.969	0.357	0.050	0.210	200	12	185
299550.XX	LSTSGA-50 Q-P	-06AN	3 (19)	1.019	0.357	0.050	0.210	200	12	185
314200.XX	LSTSGU-60 Q-P	-065UN	2 (37)	1.060	0.403	0.050	0.190	190	13	215
299930.XX	LSTSGA-60 Q-P	-065AN	2 (37)	1.110	0.403	0.050	0.190	190	13	215
299560.XX	LSTSGU-75 Q-P	-07UN	1 (37)	1.134	0.427	0.050	0.134	175	14	250
299540.XX	LSTSGA-75 Q-P	-07AN	1 (37)	1.185	0.427	0.050	0.134	175	14	250
299570.XX	LSTSGU-100 Q-P	-08UN	1/0 (61)	1.266	0.470	0.060	0.106	160	16	295
297170.XX	LSTSGA-100 Q-P	-08AN	1/0 (61)	1.316	0.470	0.060	0.106	160	16	295
314140.XX	LSTSGU-125 Q-P	-085UN	125 (61)	1.408	0.526	0.060	0.0888	150	17	340
299470.XX	LSTSGA-125 Q-P	-085AN	125 (61)	1.458	0.526	0.060	0.0888	150	17	340
310380.XX	LSTSGU-150 Q-P	-09UN	3/0 (61)	1.515	0.576	0.060	0.0674	135	19	400
299480.XX	LSTSGA-150 Q-P	-09UN	3/0 (61)	1.565	0.576	0.060	0.0674	135	19	400
299530.XX	LSTSGU-200 Q-P	-10UN	4/0 (61)	1.669	0.656	0.060	0.053	125	21	460
299520.XX	LSTSGA-200 Q-P	-10AN	4/0 (61)	1.719	0.656	0.060	0.053	125	21	460
364600.XX	LSTSGU-250 Q-P	-105UN	250 (61)	1.794	0.710	0.060	0.0444	120	22	535
299510.XX	LSTSGA-250 Q-P	-105AN	250 (61)	1.844	0.710	0.060	0.0444	120	22	535
364610.XX	LSTSGU-300 Q-P	-11UN	300 (91)	1.957	0.765	0.075	0.0377	110	24	590
299490.XX	LSTSGA-300 Q-P	-11AN	300 (91)	2.007	0.765	0.075	0.0377	110	24	590
314150.XX	LSTSGU-350 Q-P	-115UN	350 (91)	2.073	0.824	0.075	0.0316	105	25	665
297180.XX	LSTSGA-350 Q-P	-115AN	350 (91)	2.123	0.824	0.075	0.0316	105	25	665
299500.XX	LSTSGU-400 Q-P	-12UN	400 (127)	2.203	0.882	0.075	0.0273	100	27	750
299250.XX	LSTSGA-400 Q-P	-12AN	400 (127)	2.253	0.882	0.075	0.0273	100	27	750

Ordering information: Example: 299580.09 = LSTSGU-50 Q-P WHT



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QUIK-PREP® M24643/17, TYPE LSFSGU

1000V, Four-Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- 3 AWG, 1 AWG, 1/0 AWG, 3/0 AWG & 4/0 AWG bare copper per ASTM B3
- Class C stranding per ASTM B8 – 3 AWG & 1 AWG
- Class D stranding per ASTM B8 – 1/0 AWG, 3/0 AWG & 4/0 AWG

Insulation:

- Silicone Rubber Glass Tape
- Color code: Method 1

Extruded Covering:

- Extruded covering over silicone rubber glass tape – 10 mils nominal
- NAVSEA Qualified

Rip Cord:

- Two (2) Watertight Aramid Yarns - 180° apart
- NAVSEA Qualified

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO)
- Color code: Black (00) or White (09)
i.e. Catalog Number XXXXXX.00 or .09

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LSFSGU-XXX M24643/17-XXXX XL POLYO
YEAR OF MFG

Options:

- Armored – Braided Aluminum in accordance with (IAW) M24643/17
- Navy Standard Conductor – 60
- Other conductor sizes available

Applications:

- For use in shipboard power systems.
- For use in degaussing applications.
- Suitable for watertight, non-flexing service.

Features & Benefits:

- Watertight for mission-critical environments.
- Meets the 1 hour fire electrical circuit integrity requirements per M24643.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.
- Quik-Prep® Extruded Covering: eliminates the need for costly secondary operations including materials such as synthetic tubing, insulating varnishes and phase markers (DOD-STD-2003-1); significantly reduces overall total installed costs; enhances the integrity of the cable insulation system for more reliable performance as a result of fewer preparation requirements.
- Quik-Prep® Rip Cord: effectively separates the jacket from the water tight cable core for easier stripability and quicker cable preparation time; no longitudinal scoring is needed preventing potential damage to the underlying conductor insulation system eliminating repair time, potential scrap and increasing operator safety.

Compliances:

- M24643/17

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

QUIK-PREP® M24643/17 1000V, Four-Conductor, Watertight, Low-Smoke

Catalog Number XX = .00 (Black) or .09 (White)	Product Description Type/Size	Military Part No. M24643/17	Cond. (AWG/ MCM)	Max. Cable O.D.	Nom. Dia. Over Outer Ins. Tape Covering	Min. Avg. Jacket Thickness	Max. Cond. Resistance per 1000 ft. at 25°C	Min. Ins. Resistance per 1000 ft.	Max. Dia. Cold Bending Mandrel	Accelerated Services Loading
			Size/ Strand	Inches	Inches	Inches	Ohms	Megohms	Inches	Amperes
313990.XX	LSFSGU-50 Q-P	-05UN	3 (19)	1.050	0.357	0.050	0.210	200	13	180
364620.XX	LSFSGU-75 Q-P	-06UN	1 (37)	1.240	0.427	0.050	0.134	175	15	250
364630.XX	LSFSGU-100 Q-P	-07UN	1/0 (61)	1.358	0.470	0.060	0.106	160	16	295
314000.XX	LSFSGU-150 Q-P	-08UN	3/0 (61)	1.625	0.576	0.060	0.0674	135	19	400
364460.XX	LSFSGU-200 Q-P	-09UN	4/0 (61)	1.820	0.656	0.060	0.0536	125	21	465

Ordering information: Example: 313990.09 = LSFSGU-50 Q-P WHT



QUIK-PREP® M24643/22, TYPE LS5KVTSGU & LS5KVTSGA

5000V, Three-Conductor, Watertight, Low-Smoke

Product Construction:

Conductor:

- 1/0 AWG, 3/0 AWG, 250 MCM & 350 MCM bare copper per ASTM B3
- Class C stranding per ASTM B8 – 250 MCM
- Class D stranding per ASTM B8 – 1/0 AWG, 3/0 AWG & 350 MCM
- 400 (127 strand) Navy Standard Conductor

Insulation:

- Silicone Rubber Glass Tape
- Color code: Method 1

Extruded Covering:

- Extruded covering over silicone rubber glass tape – 10 mils nominal
- NAVSEA Qualified

Rip Cord:

- Two (2) Watertight Aramid Yarns - 180° apart
- NAVSEA Qualified

Jacket:

- Low-Smoke, Zero-Halogen Cross-Linked Polyolefin (LSZH XL POLYO)
- Color code: Black (00) or White (09)
i.e. Catalog Number XXXXXX.00 or .09

Optional Armor:

- Braided Aluminum (LS5KVTSGA Type)

Print:

- Including but not limited to:
GENERAL CABLE BRAND REX BRAND
LS5KVTSGU-XXX OR LS5KVTSGA-XXX
M24643/22-XXXX XL POLYO YEAR OF MFG

Options:

- Other conductor sizes available

Applications:

- For use in shipboard power systems.
- For use in degaussing applications.
- Suitable for watertight non-flexing service.

Features & Benefits:

- Watertight for mission-critical environments.
- Meets the 1 hour fire electrical circuit integrity requirements per M24643.
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, Zero-Halogen system maintains circuit integrity as a result of minimal smoke generation, acid gas and toxicity.
- Quik-Prep® Extruded Covering: eliminates the need for costly secondary operations including materials such as synthetic tubing, insulating varnishes and phase markers (DOD-STD-2003-1); significantly reduces overall total installed costs; enhances the integrity of the cable insulation system for more reliable performance as a result of fewer preparation requirements.
- Quik-Prep® Rip Cord: effectively separates the jacket from the water tight cable core for easier stripability and quicker cable preparation time; no longitudinal scoring is needed preventing potential damage to the underlying conductor insulation system eliminating repair time, potential scrap and increasing operator safety.

Compliances:

- M24643/22

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

QUIK-PREP® M24643/22 5000V, Three-Conductor, Watertight, Low-Smoke

Catalog Number XX = .00 (Black) or .09 (White)	Product Description Type/Size	Military Part No. M24643/22	Cond. (AWG/ MCM)	Max. Cable O.D.	Nom. Dia. Over Outer Ins. Tape Covering	Min. Avg. Jacket Thickness	Max. Cond. Resistance per 1000 ft. at 25°C	Min. Ins. Resistance per 1000 ft.	Max. Dia. Cold Bending Mandrel	Accelerate d Services Loading
			Size/ Strand	Inches	Inches	Inches	Ohms	Megohms	Inches	Amperes
364710.XX	LS5KVTSGU-100 Q-P	-01UN	1/0 (61)	1.74	0.692	0.090	0.106	400	22	295
298220.XX	LS5KVTSGA-100 Q-P	-01AN	1/0 (61)	1.79	0.692	0.090	0.106	400	22	295
364720.XX	LS5KVTSGU-150 Q-P	-02UN	3/0 (61)	1.95	0.789	0.090	.0674	350	24	400
298230.XX	LS5KVTSGA-150 Q-P	-02AN	3/0 (61)	2.00	0.789	0.090	.0674	350	24	400
364730.XX	LS5KVTSGU-250 Q-P	-03UN	250 (61)	2.22	0.911	0.090	.0453	300	28	535
298240.XX	LS5KVTSGA-250 Q-P	-03AN	250 (61)	2.27	0.911	0.090	.0453	300	28	535
364740.XX	LS5KVTSGU-350 Q-P	-04UN	350 (61)	2.45	1.017	0.090	.0321	265	30	665
298250.XX	LS5KVTSGA-350 Q-P	-04AN	350 (61)	2.50	1.017	0.090	.0321	265	30	665
364750.XX	LS5KVTSGU-400 Q-P	-05UN	400 (61)	2.60	1.082	0.090	.0273	250	32	750
298260.XX	LS5KVTSGA-400 Q-P	-05AN	400 (61)	2.65	1.082	0.090	.0273	250	32	750

Ordering information: Example: 364710.09 = LS5KVTGU-100 Q-P WHT



M24643/59, Type LSC5OS-4 Non-Watertight

4 Pair, 24 AWG — Twisted Pair, Foil / Braid Shielded Cat5e, Low-Smoke, Zero-Halogen Cable
TIA/EIA-568-B.2

Product Construction:

Conductor:

- 24 AWG solid bare copper

Insulation:

- High Density Polyethylene (HD-PE)
- Color code: Pair 1: White-Blue/Blue; Pair 2: White-Orange/Orange; Pair 3: White-Green/Green; Pair 4: White-Brown/Brown

Screen:

- Longitudinal aluminum/polyester 25% min. overlap (alum. side out)

Shield:

- 36 AWG tin coated copper - 65% coverage

Jacket:

- Cross-linked Polyolefin (Low-Smoke, Zero-Halogen) - Black (BLK)

Print:

- Including but not limited to:
GENERAL CABLE (F) LSC5OS-4
SHIPLAN/59 MARINE CABLE
4 PR/24 AWG - SFTP NON-HALOGEN
TIA/EIA-568-B.2 CAT5E
AAAAA* MO/YR** XXXXXX FT***
*Order Number **Date ***Footage Markings

Options:

- M24643/59 Watertight

Applications:

- For the proposed requirements of M24643 for high speed data transmission. Tested to 100 MHz.
- IEEE 802.3: 1000BASE-T (Gigabit Ethernet); 100BASE-TX; 10BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband analog video

Features and Benefits:

- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Extremely tough cross-linked jacket provides excellent mechanical and environmental protection.

Compliances:

- In accordance with M24643/59
- Exceeds TIA/EIA-568-B.2
- ISO/IEC 11801
- ETL verified to TIA/EIA-568-B.2

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (IC)
- ISO 9001:2000

Packaging:

- 1000' put-ups on wooden reels

M24643/59, 4 Pair, 24 AWG, Twisted Pair, Foil / Braid Shielded Cat 5e, Non-Watertight, Low-Smoke, Zero-Halogen Cable

Catalog Number	Product Description Type/Size	Military Part No. M24643/59	# of Pairs	Conductor Size	Nom. Insulation O.D.	Nom. Cable Diameter	Nom. Cable Weight	Bend Radius
				AWG	Inches	Inches	lbs/1000 ft.	
L024P0045438X	LSC5OS-4	-03UO	4	24 AWG Solid	0.042	0.305	65	10X Cable O.D.

M24643/59, Type LSC5OS-4 Non-Watertight

4 Pair, 24 AWG — Twisted Pair, Foil / Braid Shielded Cat5e, Low-Smoke, Zero-Halogen Cable
TIA/EIA-568-B.2

DC Resistance	9.38 Ω / 100m (28.6 Ω / Mft.) Max.
DCR Unbalanced	5% Max.
Mutual Capacitance	55.8 pF/m (17 pF/ft.) Max.
Capacitance Unbalance	330 pF/100m (1 pF/ft.) Max.
Characteristic Impedance	100 $\Omega \pm 15\%$ (1-100 MHz)
Input Impedance	100 $\Omega \pm 15\%$ (1-100 MHz)
Prop. Delay (Skew)	45 ns/100m Max.
Velocity of Propagation	69% Nom.
Temperature & Voltage Rating	-20°C to +75°C / 300V Max.

Electrical Performance								
Freq. (MHz)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACR (dB/100m)	PSACR (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	RL (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
0.772	1.8	67.0	64.0	65.2	62.2	66.0	63.0	--
1	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.7	48.7	23.0
8	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.3	44.3	39.1	36.1	39.7	36.7	25.0
20	9.3	45.8	42.8	36.5	33.5	37.7	34.7	25.0
25	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.8	24.8	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1

M24643/61, Type LSC5POS-4 Non-Watertight

4 Pair, 24 AWG — Twisted Pair, Foil / Braid Shielded Cat5e, Low-Smoke, Zero-Halogen
Patch Cable
TIA/EIA-568-B.2

Product Construction:

Conductor:

- 24 AWG stranded tinned copper

Insulation:

- High Density Polyethylene (HD-PE)
- Color code: Pair 1: White-Blue/Blue;
Pair 2: White-Orange/Orange; Pair
3: White-Green/Green; Pair 4:
White-Brown/Brown

Screen:

- Longitudinal aluminum/polyester 25%
min. overlap (alum. side out)

Shield:

- 36 AWG tin coated copper - 65%
coverage

Jacket:

- Cross-Linked Polyolefin (Low-Smoke,
Zero-Halogen) - Black (BLK)

Print:

- Including but not limited to:
GENERAL CABLE (F) LSC5POS-4
SHIPLAN/61 MARINE CABLE
4 PR/24 AWG - SFTP NON-HALOGEN
TIA/EIA-568-B.2 CAT5E
AAAAA* MO/YR** XXXXXX FT***
*Order Number **Date ***Footage Markings

Applications:

- For the proposed requirements of
M24643 for high speed data
transmission. Tested to 100 MHz.
- IEEE 802.3: 1000BASE-T (Gigabit
Ethernet); 100BASE-TX; 10BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband analog
video

Features and Benefits:

- Shielding system protects signals from
electromagnetic interference (EMI) and
radio frequency interference (RFI).
- Extremely tough cross-linked jacket
provides excellent mechanical and
environmental protection.

Compliances:

- In accordance with M24643/61
- Exceeds TIA/EIA-568-B.2
- ISO/IEC 11801
- ETL verified to TIA/EIA-568-B.2

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (IC)
- ISO 9001:2000

Packaging:

- 1000' put-ups on wooden reels

**M24643/61, 4 Pair, 24 AWG, Twisted Pair, Foil / Braid Shielded Cat 5e, Non-Watertight, Low-Smoke, Zero-Halogen,
Patch Cable**

Catalog Number	Product Description Type/Size	Military Part No. M24643/61	# of Pairs	Conductor Size	Nom. Insulation O.D.	Nom. Cable Diameter	Nom. Cable Weight	Bend Radius
				AWG	Inches	Inches	lbs/1000 ft.	Inches
L024P0045638X	LSC5POS-4	-02UD	4	24 AWG Stranded	0.049	0.330	53	10x Cable O.D



Phone: (888) 593-3355
Fax: (800) 335-1270
www.generalcable.com

M24643/61, Type LSC5POS-4 Non-Watertight

4 Pair, 24 AWG — Twisted Pair, Foil / Braid Shielded Cat5e, Low-Smoke, Zero-Halogen
Patch Cable
TIA/EIA-568-B.2

DC Resistance	9.38 Ω / 100m (28.6 Ω / Mft.) Max.
DCR Unbalanced	5% Max.
Mutual Capacitance	55.8 pF/m (17 pF/ft.) Max.
Capacitance Unbalance	330 pF/100m (1 pF/ft.) Max.
Characteristic Impedance	100 Ω \pm 15% (1-100 MHz)
Input Impedance	100 Ω \pm 15% (1-100 MHz)
Prop. Delay (Skew)	45 ns/100m Max.
Velocity of Propagation	69% Nom.
Temperature & Voltage Rating	-20°C to +75°C / 300V Max.

Electrical Performance								
Freq. (MHz)	Attenuation (dB/100m)	NEXT (dB/100M)	PSNEXT (dB/100M)	ACR (dB/100m)	PSACR (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	RL (dB)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
0.772	2.2	67.0	64.0	64.8	61.8	66.0	63.0	--
1	2.4	65.3	62.3	62.9	59.9	63.8	60.8	20.0
4	4.9	56.3	53.3	51.4	48.4	51.7	48.7	23.0
8	7.0	51.8	48.8	44.8	41.8	45.7	42.7	24.5
10	7.8	50.3	47.3	42.5	39.5	43.8	40.8	25.0
16	9.8	47.3	44.3	37.5	34.5	39.7	36.7	25.0
20	11.2	45.8	42.8	34.6	31.6	37.7	34.7	25.0
25	12.5	44.3	41.3	31.8	28.8	35.8	32.8	24.3
31.25	14.0	42.9	39.9	28.9	25.9	33.9	30.9	23.6
62.5	20.4	38.4	35.4	18.0	15.0	27.8	24.8	21.5
100	26.4	35.3	32.3	8.9	5.9	23.8	20.8	20.1

M24643/59, Type LSC5OSW-4 Watertight

4 Pair, 24 AWG — Twisted Pair, Foil / Braid Shielded Cat5e, Low-Smoke, Zero-Halogen Cable
TIA/EIA-568-B.2

Product Construction:

Conductor:

- 24 AWG solid bare copper

Insulation:

- High Density Polyethylene (HD-PE)
- Color code: Pair 1: White-Blue/Blue; Pair 2: White-Orange/Orange; Pair 3: White-Green/Green; Pair 4: White-Brown/Brown

Waterblocked:

- Water swellable yarn

Screen:

- Longitudinal aluminum/polyester 25% min. overlap (alum. side out)

Shield:

- 36 AWG tin coated copper - 65% coverage

Waterblocked:

- Water swellable tape

Jacket:

- Cross-linked Polyolefin (Low-Smoke, Zero-Halogen) - Black (BLK)

Print:

- Including but not limited to:
GENERAL CABLE (F) LSC5OSW-4
SHIPLAN/59 MARINE CABLE
4 PR/24 AWG - SFTP NON-HALOGEN
TIA/EIA-568-B.2 CAT5E
AAAAA* MO/YR** XXXXXX FT***
*Order Number **Date ***Footage Markings

Options:

- M24643/59 Non-Watertight

Applications:

- For the proposed requirements of M24643 for high speed data transmission. Tested to 100 MHz.
- IEEE 802.3: 1000BASE-T (Gigabit Ethernet); 100BASE-TX; 10BASE-T
- 155 Mp/s, 622 Mp/s ATM
- ANSI X3.263: 100 Mb/s
- 4/16 Mb/s Token Ring
- Broadband and Baseband analog video

Features and Benefits:

- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Extremely tough cross-linked jacket provides excellent mechanical and environmental protection.

Compliances:

- In accordance with M24643/59
- Exceeds TIA/EIA-568-B.2
- ISO/IEC 11801
- ETL verified to TIA/EIA-568-B.2

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (IC)
- ISO 9001:2000

Packaging:

- 1000' put-ups on wooden reels

M24643/59, 4 Pair, 24 AWG, Twisted Pair, Foil / Braid Shielded, Cat 5e, Watertight, Low-Smoke, Zero-Halogen Cable

Catalog Number	Product Description Type/Size	Military Part No. M24643/59	# of Pairs	Conductor Size	Nom. Insulation O.D.	Nom. Cable Diameter	Nom. Cable Weight	Bend Radius
				AWG	Inches	Inches	lbs/1000 ft.	Inches
L024P0045338X	LSC5OSW-4	-04UO	4	24 AWG Solid	0.042	0.360	65	10X Cable O.D

M24643/59, Type LSC5OSW-4 Watertight

4 Pair, 24 AWG — Twisted Pair, Foil / Braid Shielded Cat5e, Non-Halogen Cable

TIA/EIA-568-B.2

DC Resistance	9.38 Ω / 100m (28.6 Ω / Mft.) Max.
DCR Unbalanced	5% Max.
Mutual Capacitance	55.8 pF/m (17 pF/ft.) Max.
Capacitance Unbalance	330 pF/100m (1 pF/ft.) Max.
Characteristic Impedance	100 $\Omega \pm 15\%$ (1-100 MHz)
Input Impedance	100 $\Omega \pm 15\%$ (1-100 MHz)
Prop. Delay (Skew)	45 ns/100m Max.
Velocity of Propagation	69% Nom.
Temperature & Voltage Rating	-20°C to +75°C / 300V Max.

Electrical Performance								
Freq. (MHz)	Attenuation (dB/100m)	NEXT (dB/100M)	PSNEXT (dB/100M)	ACR (dB/100m)	PSACR (dB/100m)	ELFEXT (dB/100m)	PSELFEXT (dB/100m)	RL (dB)
	Max.	Min.	Min.	Min.	Minx.	Min.	Min.	Min.
0.772	1.8	67.0	64.0	65.2	62.2	66.0	63.0	--
1	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4	4.1	56.3	53.3	52.2	49.2	51.7	48.7	23.0
8	5.8	51.8	48.8	46.0	43.0	45.7	42.7	24.5
10	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16	8.2	47.3	44.3	39.1	36.1	39.7	36.7	25.0
20	9.3	45.8	42.8	36.5	33.5	37.7	34.7	25.0
25	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.8	24.8	21.5
100	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1

ShipLAN Cross Reference

General Cable Part Number	M24643 Specification	M24643 Spec Part Number	Conductor Size and Stranding	Shielding	Watertight	Outer Jacket	RJ-45 Connector Recommendation (Sentinel Connectors Part Number) ⁽¹⁾	Amphenol RJ Field Ethernet Connection For Harsh Environment ⁽³⁾
LO24P0045008X	--	--	24 AWG Solid BC	Unshielded (UTP)	No	Thermoplastic, Black	106-080800-34	-
LO24P0045009X	--	--	24 AWG Solid BC	UTP	No	Thermoplastic, White	106-080800-34	-
LO24P0045238X	--	--	24 AWG Solid BC	Foil Shield (ScTP)	No	Thermoplastic, Black	106S080800C34 or 111S08080056C34 ⁽²⁾	Yes
LO24P0045239X	--	--	24 AWG Solid BC	Foil Shield (ScTP)	No	Thermoplastic, White	106S080800C34 or 111S08080056C34 ⁽²⁾	Yes
LO24P0045338X	/59-04UO	LSC5OSW-4	24 AWG Solid BC	Double Shielded: TC Braid and Foil (SFTP)	Yes	Thermoset, Black	106S080800C34 or 111S08080056C34 ⁽²⁾	Yes
LO24P0045438X	/59-03UO	LSC5OS-4	24 AWG Solid BC	Double Shielded: TC Braid and Foil (SFTP)	No	Thermoset, Black	106S080800C34 or 111S08080056C34 ⁽²⁾	Yes
LO24P0045638X	/61-02UD	LSC5POS-4	24 AWG Stranded TC	Double Shielded: TC Braid and Foil (SFTP)	No	Thermoset, Black	106S08080058C34	-
LO24P0045838X	--	--	24 AWG Solid BC	Foil Shield (ScTP)	No	Thermoset, Black	106S080800C34 or 111S08080056C34 ⁽²⁾	Yes

⁽¹⁾Please visit www.sentinelconn.com to view Sentinel Data Sheets on these specific part numbers.

⁽²⁾Sentinel Connector part number 111S08080056C34 was jointly developed by Sentinel & Lockheed-Martin for applicable General Cable Part Number.

⁽³⁾Please visit www.amphenol-socapex.com to view Amphenol Data Sheet on this specific product.

M85045F Military Specification

Low-Smoke, Zero-Halogen (LSZH) Shipboard Fiber Optic Cables

General Cable has supplied military specification wire and cable for 40 years and has a distinguished list of participation in important programs. These include AEGIS shipboard weapon control systems operating over a network of low-smoke fiber optic shipboard cables, high-temperature aircraft fiber optic cabling used on F-18 video/data system, IT-21 (Information Technology for the 21st Century), ongoing SPAWAR initiative aimed at significantly improving the Navy's C4I capability through the use of COTS technology and ICAN (Integrated Communications and Advanced Network) integrated voice and data over a common fiber optic network.

Military qualified fiber optic cables (MIL-PRF-85045) are listed below:

M85045F Part Identifying #	General Cable Catalog Number	Cable Diameter in (mm)	Jacket Type	Number of Fibers	Fiber Type	Minimum Bend Diameter		Maximum Tensile Load		Nominal Weight	
						Installation in (cm)	In-Service in (cm)	Installation lbs (N)	In Service lbs (N)	lbs/1000'	kg/km
M85045/13-01P	OC-1423P	.440 (11.2)	Thermoplastic	8	Multimode	7.0 (18)	3.5 (9.0)	605 (2700)	125 (560)	81	120
M85045/13-02P	OC-1576P	.440 (11.2)	Thermoplastic	8	Singlemode	7.0 (18)	3.5 (9.0)	605 (2700)	125 (650)	81	120
M85045/15-01P	OC-1369P	.320 (8.1)	Thermoplastic	4	Multimode	5.0 (12.7)	2.5 (6.4)	420 (1875)	92 (410)	42	62
M85045/15-02P	OC-1577P	.320 (8.1)	Thermoplastic	4	Singlemode	5.0 (12.7)	2.5 (6.4)	420 (1875)	92 (410)	42	62
M85045/16-01	OC-1468	.078 (2.0)	Thermoplastic	1	Multimode	1.2 (3.0)	.62 (1.6)	60 (270)	22 (100)	3	4.5
M85045/16-02	OC-1571	.078 (2.0)	Thermoplastic	1	Singlemode	1.2 (3.0)	.62 (1.6)	60 (270)	22 (100)	3	4.5
M85045/17-01P	OC-1434P	.440 (11.2)	Thermoset	8	Multimode	7.0 (18)	3.5 (9.0)	605 (2700)	125 (560)	82	122
M85045/17-02P	OC-1462P	.440 (11.2)	Thermoset	8	Singlemode	7.0 (18)	3.5 (9.0)	605 (2700)	125 (650)	82	122
M85045/18-01P	OC-1417P	.320 (8.1)	Thermoset	4	Multimode	5.0 (12.7)	2.5 (6.4)	420 (1875)	92 (410)	42	62
M85045/18-02P	OC-1478P	.320 (8.1)	Thermoset	4	Singlemode	5.0 (12.7)	2.5 (6.4)	420 (1875)	92 (410)	42	62
M85045/20-01L	OC-1569	.850 (21.6)	Thermoset	24	Multimode	13.6 (34.5)	6.8 (17.3)	740 (3300)	245 (1080)	300	446
M85045/20-02L	OC-1671	.850 (21.6)	Thermoset	24	Singlemode	13.6 (34.5)	6.8 (17.3)	740 (3300)	245 (1080)	300	446
M85045/20-01F	OC-1570	.850 (21.6)	Thermoset	33	Multimode	13.6 (34.5)	6.8 (17.3)	740 (3300)	245 (1080)	297	442
M85045/20-02F	OC-1672	.850 (21.6)	Thermoset	33	Singlemode	13.6 (34.5)	6.8 (17.3)	740 (3300)	245 (1080)	297	442
M85045/20-01M	OC-1540	.850 (21.6)	Thermoset	36	Multimode	13.6 (34.5)	6.8 (17.3)	740 (3300)	245 (1080)	294	437
M85045/20-02M	OC-1673	.850 (21.6)	Thermoset	36	Singlemode	13.6 (34.5)	6.8 (17.3)	740 (3300)	245 (1080)	294	437
M85045/21-01	OC-1651	.560 (14.2)	Thermoset	8	Multimode	9.0 (23.0)	4.5 (11.4)	605 (2700)	160 (710)	146	217
M85045/21-02	OC-1679	.560 (14.2)	Thermoset	8	Singlemode	9.0 (23.0)	4.5 (11.4)	605 (2700)	160 (710)	146	217
M85045/22-01	OC-1680	.570 (14.5)	Thermoplastic	18	Multimode	9.0 (23.0)	4.5 (11.4)	740 (3300)	165 (725)	132	195
M85045/22-02	OC-1652	.570 (14.5)	Thermoplastic	18	Singlemode	9.0 (23.0)	4.5 (11.4)	740 (3300)	165 (725)	132	195
M85045/23-01	OC-1681	.700 (17.8)	Thermoset	18	Multimode	11.2 (28.5)	5.6 (14.0)	740 (3300)	200 (890)	217	323
M85045/23-02	OC-1653	.700 (17.8)	Thermoset	18	Singlemode	11.2 (28.5)	5.6 (14.0)	740 (3300)	200 (890)	217	323
M85045/24-01	OC-1682	1.53 (38.9)	Thermoset	90	Multimode	24.6 (62.5)	12.3 (31.2)	N/A	N/A	900	1340
M85045/24-02	OC-1654	1.53 (38.9)	Thermoset	90	Singlemode	24.6 (62.5)	12.3 (31.2)	N/A	N/A	900	1340

Cables are listed on Qualified Products List MIL-PRF-85045 (QPL) Defense Supply Center, Columbus-United States Department of Defense



M85045F & M49291C Military Specifications

Blolite™ Blown Optical Fiber Technology (BOFT)

General Cable was the first fiber manufacturer to become a Qualified Products Listed (QPL) supplier of a militarized version of blown optical fiber technology in September of 2001. Today, we continue to remain the only qualified supplier of blown optical fiber fully engineered and tested to all the stringent requirements of M85045F and M49291C.

General Cable's Blolite™ blown optical fiber technology was first installed on the aircraft carrier USS Harry Truman in 1997. Early proof of successful use of this technology and its future-proof capabilities for which it was designed, resulted in the formal development and qualification of the technology for the U.S. Navy. Key developments in military shipboard fiber optic technology have been the digitization of command, control and communication systems over a common infrastructure. This convergence has enabled significant savings in space and weight as well as greatly improved system functionality and damage tolerance. Blown optical fiber technology has furthered these advances by adding opportunities for cost savings, easy upgradeability and design flexibility.

General Cable's Blolite™ blown optical fiber solution has proven to be *the SOLUTION* for the U.S. Navy fleet.

M85045F PIN (see Note)	General Cable Catalog Number	QPL Status	Description	Jacket Material	Intended Use
M85045/25-01E	OC-1715 (Lt Blue Jkt)	QPL	7-8mm Tubes	Thermoset	Blolite™ BOF System
M85045/25-01E	OC-1598 (Blk Jkt)	QPL	7-8mm Tubes	Thermoset	Blolite™ BOF System
M85045/25-01S	OC-1716 (Lt. Blue Jkt)	QPL	7-8mm Tubes	Thermoplastic	Blolite™ BOF System
M85045/25-01S	OC-1701 (Blk Jkt)	QPL	7-8mm Tubes	Thermoplastic	Blolite™ BOF System
M85045/28-01E	OC-1702 (Blk Jkt)	QPL Pending	19-8mm Tubes	Thermoset	Blolite™ BOF System
M85045/28-01S	OC-1703 (Blk Jkt)	QPL Pending	19-8mm Tubes	Thermoplastic	Blolite™ BOF System
M85045/26-01E	OC-1717 (Lt. Blue Jkt)	QPL	1-8mm Tube	Thermoset	Blolite™ BOF System
M85045/26-01E	OC-1597 (Blk Jkt)	QPL	1-8mm Tube	Thermoset	Blolite™ BOF System
M85045/26-01S	OC-1718 (Lt. Blue Jkt)	QPL	1-8mm Tube	Thermoplastic	Blolite™ BOF System
M85045/26-01S	OC-1704 (Blk Jkt)	QPL	1-8mm Tube	Thermoplastic	Blolite™ BOF System

Note: 'E' indicates enhanced thermoset jacket-'S' indicates standard thermoplastic jacket
BOF = Blown Optical Fiber



M85045F & M49291C Military Specifications

Blolite™ Blown Optical Fiber Technology (BOFT)

M49291C PIN	General Cable Catalog Number	Outer Diameter	Fiber Type	Intended Use
M49291/6-05	OC-062H-BF-XXXX(QPL)*	500 +/- 25um	Multimode	Blolite™ BOF System
M49291/7-02	OC-009S-BF-XXXX(QPL)*	500 +/- 25um	Singlemode	Blolite™ BOF System



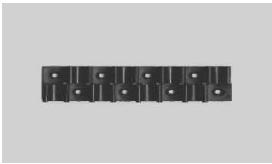
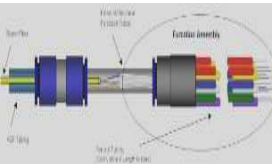

XXXX indicates color of blown optical fiber outer coating

*Blown optical fiber outer coating is available in standard colors: Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua

Fiber Characteristics	MIL-PRF-49291C/7-02 Singlemode	Mil-PRF-49291C/6-05 Multimode 62.5/125
Intended use	Blown Optical Fiber	Blown Optical Fiber
Type	Matched Clad	Graded Index
Mode Field Diameter	9.2 ± .4 @ 1310 nm	N/A
Core Diameter	8.3 µm nominal	62.5 ± 3 µm
Cladding Diameter	125 ± 1 µm	125 ± 1 µm
Coating Diameter # 1	250 ± 15 µm	250 ± 15 µm
Coating Diameter # 2	500 ± 25 µm	500 ± 25 µm
Coating Clad. Conc. Error	≤10.5 µm	≤10.5 µm
Overall Core-Clad Ratio	≥0.84 µm	≥0.84 µm
Attenuation:		
850 nm	N/A	3.5 dB/km
1300 nm	N/A	1.0 dB/km
1310 nm	.4 dB/km	N/A
1550 nm	.3 dB/km	N/A
Bandwidth (overfill):		
850 nm	N/A	≥300 MHz-km
1300 nm	N/A	≥600 MHz-km
Bandwidth (RML/EMB ₀):		
850 nm	N/A	≥385 MHz-km
1300 nm	N/A	≥700 MHz-km
Dispersion	≤3.2 ps/nm – km @ 1310	N/A
	≤22 ps/nm – km @ 1550	N/A
Radiation Resistance	Refer to Specification	Refer to Specification
Proof Test	100 kpsi (690MPa)	100 kpsi (690MPa)



General Cable Shipboard BOF Parts List

Description	General Cable Part Number	Gov't/Military Part Number	
8mm Tube Union	77-7225	AA-59731-U-8E	
8mm Tube Tee	77-7229	AA-59731-T-8E	
8MM End Cap	705620	AA-59731-EC-8E	
8mm Tube Fitting Plug	77-7231	AA-59728-TFP-8	
Adhesive/Sealant Tape	706910	Raychem SFTS-1	No Image
Tapered Tube Plug: TTP-2 (2-6 fibers) TTP-3 (8-12 fibers)	706920 706930	AA-59730-TTP-2 AA-59730-TTP-3	
Tube Clips(TM-08) SMC	706940	N/A	
Furcation Assemblies Note:# of cables, length & color must be specified	N/A	A-A-59729-TFU-	
Tube Cutter Cutter Rep. Blades	707050 707060	N/A N/A	



M85485 FILTERLINE — HIGH PERFORMANCE WIRE AND CABLE

The increasing complexity of military platforms and missions demands electronic systems that can handle the load. These 21st Century systems have become more sophisticated and much more sensitive to their surrounding environment, increasingly requiring components of the system to provide a high degree of EMI protection.

For over a quarter of a century, **General Cable** has worked with the military to deliver the most comprehensive range of wire and cable products available for use in these demanding environments. We maintain one of the industry's widest selections of high performance products offering virtually every major Mil-Spec. General Cable understands the mission-critical requirements for cabling systems, and with applied material science and processing techniques, we have successfully provided the military with cabling systems that perform.

Providing a full spectrum of capabilities for research, development, design, testing, and in-service engineering, General Cable's Brand Rex Filterline wire and cable provides a high degree of EMI protection while performing as conventional electrical wiring. Electromagnetic Interference (EMI) is caused by undesirable radiated electromagnetic fields. Filterline meets the performance requirements of M85485, which was developed to provide EMI protection for military electrical interconnects.

Brand Rex Filterline products are an alternative to conventional airframe wiring, and include high performance single end wires, twisted pairs plus shielded and jacketed cables. Irradiated crosslinked ETFE jackets are used over Filterline cables to eliminate pathways between adjacent cable shields. Key features of Filterline wire and cables are as follow: lightweight; reduced diameter; suppressed EMI above 100MHz; and a 150°C rating.

M85485/5, 6, 9, 10 — FILTERLINE RADIO FREQUENCY ABSORPTIVE HOOK-UP WIRE

General Cable Part Number	Military Part Number	Wire Size	Conductor			Finished Wire			
			Stranding	Diameter		Resistance at 20°C (68°F) (ohms/1000 ft.)	Diameter (Inches)	Weight (lbs./1000 ft.)	
				(Inches)	(Max.)			(Max.)	(Nom.)
M85485/5 150°C 600V Tin Plated Copper Conductor									
BR85485/5-22*	M85485/5-22-7L	22	19 X 34	.029	.033	16.20	.062 ± .004	5.0	5.1
BR85485/5-20*	M85485/5-20-7L	20	19 X 32	.037	.041	9.88	.070 ± .004	6.9	7.0
BR85485/5-18	M85485/5-18-7L	18	19 X 30	.046	.051	6.23	.080 ± .004	9.6	9.7
BR85485/5-16*	M85485/5-16-7L	16	19 X 29	.052	.058	4.81	.086 ± .004	11.5	11.7
BR85485/5-14	M85485/5-14-7L	14	19 X 27	.065	.073	3.06	.100 ± .004	16.5	16.6
BR85485/5-12	M85485/5-12-7L	12	37 X 28	.084	.090	2.02	.127 ± .004	26.0	26.1
BR85485/5-10	M85485/5-10-7L	10	37 X 26	.106	.114	1.26	.151 ± .005	39.0	39.1
M85485/6 150°C 600V Silver Plated High Strength Alloy Conductor									
BR85485/6-24	M85485/6-24-7L	24	19 X 36	.023	.025	28.40	.052 ± .003	3.85	3.9
M85485/9 150°C 600V Tin Plated Copper Conductor									
BR85485/9-22*	M85485/9-22-7L	22	19 X 34	.029	.033	16.20	.051 ± .003	3.9	4.0
BR85485/9-20*	M85485/9-20-7L	20	19 X 32	.037	.041	9.88	.059 ± .003	5.6	5.8
BR85485/9-18*	M85485/9-18-7L	18	19 X 30	.046	.051	6.23	.070 ± .003	8.5	8.7
BR85485/9-16*	M85485/9-16-7L	16	19 X 29	.052	.058	4.81	.078 ± .004	11.0	11.2
BR85485/9-14	M85485/9-14-7L	14	19 X 27	.065	.073	3.06	.095 ± .004	15.8	16.1
BR85485/9-12*	M85485/9-12-7L	12	37 X 28	.084	.090	2.02	.112 ± .004	23.5	24.0
BR85485/9-10	M85485/9-10-7L	10	37 X 26	.106	.114	1.26	.136 ± .006	36.5	37.0
M85485/10 150°C 600V Silver Plated High Strength Alloy Conductor									
BR85485/10-24*	M85485/10-24-7L	24	19 X 36	.023	.025	28.40	.045 ± .002	2.9	3.0

* Typical Constructions. Please forward inquiries to General Cable's customer service.



M85485/ 11, 12 — LIGHTWEIGHT FILTER LINE RADIO FREQUENCY ABSORPTIVE CABLE 150°C 600V

CABLE DESIGNATION					
M85485 Basic Specification	/11 Applicable Specification Sheet	-22 Wire Size	U Construction	3 Number of Components	A Color Code Designator
CONSTRUCTIONS					
M85485/11 UNSHIELDED, UNJACKETED CABLE CONSTRUCTIONS					
LETTER CODE		CONDUCTOR TYPE			
T		Tin Coated Copper			
S		Silver Coated Copper			
M		Silver Coated Alloy 135			
M85485/12 SHIELDED, JACKETED CABLE CONSTRUCTIONS					
LETTER CODE		CONDUCTOR TYPE		SHIELD TYPE	
T		Tin Coated Copper		Tin Coated Copper	
U		Silver Coated Alloy 135		Tin Coated Copper	
S		Silver Coated Copper		Silver Coated Copper	
M		Silver Coated Alloy 135		Silver Coated Alloy 135	
COLOR CODE DESIGNATOR					
A		Preferred Color Code			

M85485/ 11, 12 — LIGHTWEIGHT FILTER LINE RADIO FREQUENCY ABSORPTIVE CABLE 150°C 600V

General Cable Part Number	Military Part Number	Wire Size	Number of Components	Outside Diameter (inches)		Weight (lbs/1000 ft.)		
				(Nom.)	(Max.)	(Max.)		
BR85485/11-24M2	M85485/11-24M2A	24	2	.090	.094	6.1		
BR85485/11-24M3	M85485/11-24M3A	24	3	.097	.102	9.2		
BR85485/11-24M4	M85485/11-24M4A	24	4	.109	.129	12.2		
BR85485/11-22T2*	M85485/11-22T2A	22	2	.102	.106	8.2		
BR85485/11-20T2	M85485/11-20T2A	20	2	.118	.124	11.8		
BR85485/11-18T2	M85485/11-18T2A	18	2	.140	.146	17.7		
BR85485/11-16T2	M85485/11-16T2A	16	2	.156	.164	22.8		
BR85485/11-22T3	M85485/11-22T3A	22	3	.110	.117	12.2		
BR85485/11-20T3	M85485/11-20T3A	20	3	.127	.134	17.7		
BR85485/11-18T3	M85485/11-18T3A	18	3	.151	.158	26.6		
BR85485/11-16T3	M85485/11-16T3A	16	3	.169	.177	34.3		
BR85485/11-22T4	M85485/11-22T4A	22	4	.123	.149	16.3		
BR85485/11-20T4	M85485/11-20T4A	20	4	.143	.171	23.7		
BR85485/11-18T4	M85485/11-18T4A	18	4	.169	.201	35.5		
BR85485/11-16T4	M85485/11-16T4A	16	4	.189	.226	45.7		
General Cable Part Number	Military Part Number	Conductor Size	Number of Components	Jacket Thickness (Inches)		Outside Diameter (inches)		Weight (lbs/1000 ft.)
				(Min.)	(Nom.)	(Nom.)	(Max.)	(Max.)
BR85485/12-24U1	M85485/12-24U1A	24	1	.0060	.008	.077	.084	7.3
BR85485/12-24U2	M85485/12-24U2A	24	2	.0060	.008	.122	.131	13.0
BR85485/12-24U3	M85485/12-24U3A	24	3	.0060	.008	.129	.139	17.0
BR85485/12-24U4	M85485/12-24U4A	24	4	.0060	.008	.141	.165	21.3
BR85485/12-22T1*	M85485/12-22T1A	22	1	.0060	.008	.083	.091	8.8
BR85485/12-20T1*	M85485/12-20T1A	20	1	.0060	.008	.091	.099	11.2
BR85485/12-18T1	M85485/12-18T1A	18	1	.0060	.008	.102	.110	14.9
BR85485/12-16T1	M85485/12-16T1A	16	1	.0060	.008	.110	.119	18.0
BR85485/12-22T2*	M85485/12-22T2A	22	2	.0060	.008	.134	.145	16.0
BR85485/12-20T2*	M85485/12-20T2A	20	2	.0060	.008	.150	.161	20.5
BR85485/12-18T2	M85485/12-18T2A	18	2	.0060	.008	.172	.183	27.8
BR85485/12-16T2	M85485/12-16T2A	16	2	.0060	.008	.188	.201	34.0
BR85485/12-22T3*	M85485/12-22T3A	22	3	.0060	.008	.142	.154	20.9
BR85485/12-20T3*	M85485/12-20T3A	20	3	.0060	.008	.159	.171	27.6
BR85485/12-18T3	M85485/12-18T3A	18	3	.0060	.008	.183	.195	38.0
BR85485/12-16T3	M85485/12-16T3A	16	3	.0060	.008	.201	.214	47.0
BR85485/12-22T4	M85485/12-22T4A	22	4	.0060	.008	.155	.184	26.6
BR85485/12-20T4	M85485/12-20T4A	20	4	.0060	.008	.175	.206	35.4

*Typical Constructions. Please forward inquiries to General Cable's customer service.

NAVSEA 6262065-1

Radio Frequency Cable, Triaxial, Low Level Serial, Low-Smoke, Watertight

Product Construction:

Conductor:

- 12 AWG (7/20) stranded silver coated copper

Dielectric Core:

- Cross-linked foam Polyethylene

Inner Shield Braid:

- Silver plated copper conductor

Watertight:

- Water blocking compound

Inner Jacket:

- Filled, cross-linked, thermoset, Low-Smoke, Low-Halogen polymer

Outer Shield Braid:

- Optimized shield configuration, silver coated copper conductor

Watertight:

- Water blocking compound

Jacket:

- Filled, cross-linked, thermoset, Low-Smoke, Low-Halogen polymer per M24643

Print:

- Including but not limited to:
NAVSEA 6262065-1 GENERAL CABLE
BRAND REX BRAND T-13138 YEAR OF
MFG

Applications:

- Optimized shielded triaxial cable suitable for shipboard application.
- Intended to function as the primary transmission media for 'NTOS' low level serial data.

Features and Benefits:

- Watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low-smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6262065-1 Radio Frequency Cable, Triaxial, Low Level Serial, Low-Smoke, Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000ft.		pF/ft	Ohms
T-13138	574080.00.77	6262065-1	0.450 ± .010	165	77 ± 3%	29	50 ± 2

Note: see NAVSEA specification for additional performance characteristics



NAVSEA 6322493

Radio Frequency Cable, Triaxial, 75 ohm, Non-Watertight

Product Construction:

Conductor:

- 18 AWG (19/30) stranded tin coated copper

Dielectric Core:

- Cross-linked foam Polyethylene

Inner Shield Braid:

- Tin coated copper conductor

Wrap:

- Polyester tape

Inner Jacket:

- Filled, cross-linked, thermoset, Low-Smoke, Low-Halogen polymer

Outer Shield Braid:

- Optimized shield configuration, tin coated copper conductor

Wrap:

- Polyester tape

Jacket:

- Filled, cross-linked, thermoset, Low-Smoke, Low-Halogen polymer per M24643

Print:

- Including but not limited to:
NAVSEA 6322493 GENERAL CABLE
BRAND REX BRAND T-12824A YEAR OF
MFG

Applications:

- Optimized shielded 75 ohm triaxial cable suitable for shipboard application.
- For use in a protected or interior environment.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6322493 – Radio Frequency Cable, Triaxial, 75 ohm, Non-Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Min. Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000ft.		pF/ft	Ohms
T-12824A	580270.00.77	6322493	0.465 ± .015	160	73%	20	75 ± 3



NAVSEA 6323052

Radio Frequency Cable, Flexible, Coaxial, 50 ohm, Double Shielded, Low-Smoke, Non-Watertight

Product Construction:

Conductor:

- 12 AWG (19/25) stranded silver plated copper

Dielectric Core:

- Cross-linked foam Polyethylene

Inner Shield Braid:

- Optimized shield configuration, silver coated copper conductor

Wrap:

- Polyester tape

Outer Shield Braid:

- Optimized shield configuration, silver coated copper

Wrap:

- Polyester tape

Jacket:

- Composite jacket material of extruded low-smoke, low-halogen bedding compound bonded to filled cross-linked thermoset low-smoke, low-halogen polymer compound (Method B)

Print:

- Including but not limited to:
NAVSEA 6323052 GENERAL CABLE
BRAND REX BRAND T-13293 YEAR OF MFG

Applications:

- Double optimized shielded, 50 ohm, coaxial cable suitable for shipboard application.
- For use in exposed weather locations.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSL Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6323052 - Radio Frequency Cable, Flexible, Coaxial, 50 ohm, Double Shielded, Low-Smoke, Non-Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000ft.		pF/ft	Ohms
T-13293	579360.00.77	6323052	0.415 ± .010	130	80 ± 3%	29	50 ± 2



NAVSEA 6323054

Radio Frequency Cable, Flexible, Coaxial, 75 ohm, Double Shielded, Low-Smoke, Non-Watertight

Product Construction:

Conductor:

- 18 AWG (19/30) stranded tin coated copper

Dielectric Core:

- Cross-linked foam Polyethylene

Inner Shield Braid:

- Optimized shield configuration, tin coated copper conductor

Wrap:

- Polyester tape

Outer Shield Braid:

- Optimized shield configuration, tin coated copper

Wrap:

- Polyester tape

Jacket:

- Composite jacket material of extruded low-smoke, low-halogen bedding compound bonded to filled cross-linked thermoset low-smoke, low-halogen polymer compound (Method B)

Print:

- Including but not limited to:
NAVSEA 6323054 GENERAL CABLE
BRAND REX BRAND T-13136 YEAR OF MFG

Applications:

- Double optimized shielded, 75 ohm, coaxial cable suitable for shipboard application.
- For use in exposed weather locations.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6323054 - Radio Frequency Cable, Flexible, Coaxial, 75 ohm, Double Shielded, Low-Smoke, Non-Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Nom. Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000 ft.		pF/ft	Ohms
T-13136	579350.00.77	6323054	0.420 ± .008	132	73%	20	75 ± 3



NAVSEA 6323055

Radio Frequency Cable, Twinaxial, 78 ohm, Low-Smoke, Non-Watertight

Product Construction:

Conductor:

- 20 AWG (19/32), 2 conductors each, stranded tin coated copper

Dielectric Core:

- Cross-linked foam Polyethylene
- Each core: 1 colored white, 1 colored black

Filler Core:

- Cross-linked Polyethylene, flame retardant, strands to be used to maintain concentricity

Wrap:

- Polyester tape

Shield Braid:

- Optimized shield configuration, tin coated copper conductor

Jacket:

- Composite jacket material of extruded low-smoke, low-halogen bedding compound bonded to filled cross-linked thermoset low-smoke, low-halogen polymer compound (Method B)

Print:

- Including but not limited to:
NAVSEA 6323055 GENERAL CABLE
BRAND REX BRAND T-13294 YEAR OF MFG

Applications:

- Optimized shielded, 78 ohm, twinaxial cable suitable for shipboard application.
- For use in protected or interior environment.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low-Smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6323055 - Radio Frequency Cable, Twinaxial, 78 ohm, Low-Smoke, Non-Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Nom. Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000ft.		pF/ft	Ohms
T-13294	579370.00.77	6323055	0.275 ± .006	60	74%	24	78 ± 5



NAVSEA 6323056

Radio Frequency Cable, Flexible, Triaxial, 50 ohm, Low-Smoke, Non-Watertight

Product Construction:

Conductor:

- 20 AWG (19/32) stranded tin coated copper

Dielectric Core:

- Cross-linked foam Polyethylene

Inner Shield Braid:

- Tin coated copper conductor

Inner Jacket:

- Filled, cross-linked, thermoset, low-smoke, low-halogen polymer

Outer Shield Braid:

- Optimized shield configuration, tin coated copper conductor

Jacket:

- Composite jacket material of extruded low-smoke, low-halogen bedding compound bonded to filled cross-linked thermoset low-smoke, low-halogen polymer compound (Method B)

Print:

- Including but not limited to:
NAVSEA 6323056 GENERAL CABLE
BRAND REX BRAND T-13295 YEAR OF MFG

Applications:

- Optimized shielded, 50 ohm, triaxial cable suitable for shipboard application.

Features and Benefits:

- Non-watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6323056 – Radio Frequency Cable, Flexible, Triaxial, 50 ohm, Low-Smoke, Non-Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000ft.		pF/ft	Ohms
T-13295	579380.00.77	6323056	0.283 ± .006	70	70 ± 3%	32.2	50 ± 2



NAVSEA 6323059

Radio Frequency Cable, Flexible, Lightweight, Triaxial, 75 ohm, Low-Smoke, Non-Watertight

Product Construction:

Conductor:

- 24 AWG (19/36) stranded tin coated copper

Dielectric Core:

- Cross-linked foam Polyethylene

Inner Shield Braid:

- Tin coated copper conductor

Inner Jacket:

- Filled, cross-linked, thermoset, low-smoke, low-halogen polymer

Outer Shield Braid:

- Optimized shield configuration, tin coated copper conductor

Jacket:

- Composite jacket material of extruded low-smoke, low-halogen bedding compound bonded to filled cross-linked thermoset low-smoke, low-halogen polymer compound (Method B)

Print:

- Including but not limited to:
NAVSEA 6323059 GENERAL CABLE
BRAND REX BRAND T-13339 YEAR OF MFG

Applications:

- Optimized shielded, 75 ohm, lightweight triaxial cable suitable for shipboard application
- For use in a protected or interior environment

Features and Benefits:

- Non-watertight for mission-critical environments.
- Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI).
- Thermoset system for advanced mechanical fortification.
- Low smoke, low toxicity system for circuit integrity.

Compliances:

- Materials in accordance with M24643

Quality Programs and Certifications:

- ANSI/NCSS Z540-1
- MIL-I-45208A
- MIL-STD-790
- NHB 5300.4 (1C)
- ISO 9001:2000

Packaging:

- Per MIL Spec

NAVSEA 6323059 - Radio Frequency Cable, Flexible, Lightweight, Triaxial, 75 ohm, Low-Smoke, Non-Watertight

Catalog Number	Product Code	Product Description	Cable Diameter	Max. Cable Weight	Velocity of Propagation	Max. Capacitance	Characteristic Impedance
			Inches	lbs./1000ft.		pF/ft	Ohms
T-13339	231890.00.77	6323059	0.325 ± .006	85	70 ± 3%	20	75 ± 3