

# TYPE LSMSCU, LSMSCA, LSMSCS

MIL-C-24643/18

7 through 91 Conductors, 1000 Volts, Watertight,  
Nonflexing Service, 18 AWG

## APPLICATIONS:

Type LSMSCU/A/S cables are multiconductor either armored or unarmored. They are watertight and meet the 1-hour fire electrical circuit integrity requirements of this specification. These cables may be used for power, lighting, or weapon control system inter-connection except where unusual circuit parameters require a special type of cable. They are also used for degaussing applications. The overall shielding conforms to the surface transfer impedance and EMP response time requirements of the specification.



## SPECIFICATIONS:

1. CONDUCTOR: Stranded bare copper.
  2. INSULATION: Extruded silicone rubber.
  3. COVERING: Glass braid.
  4. IDENTIFICATION: Standard identification code by Method 1.
  5. ASSEMBLY: The required number of conductors cabled with fillers and binder or combination binder/barrier.
  6. OVERALL JACKET: Cross-linked polyolefin, surface marking.
  7. AMPACITY: Calculated at 60 Hz AC (rms) or DC for 75°C conductor temperature.
- LSMSCA, same construction with overall braided aluminum armor.  
LSMSCS, same as LSMSCU, except double overall shield.

Anixter Number Type & Size	Military/ Part Number M24643/18	No. of Cond.	Overall Jacket Thick. IN	Nominal D.D. IN						Amps Per Conductor		Approximate Weight		
				LSMSCU		LSMSCA		LSMSCS		40°C	50°C	LSMSCU Lbs./Ft.	LSMSCA Lbs./Ft.	LSMSCS Lbs./Ft.
				Min	Max	Min	Max	Min	Max					
LSMSCU/A/S-7	-01UN	7	.040	.447	.484	.497	.534	.507	.544	12/8*	8/6*	.148	.176	.244
LSMSCU/A/S-10	-02UN	10	.050	.575	.622	.625	.672	.635	.682	12/8	9/6	.227	.267	.349
LSMSCU/A/S-14	-03UN	14	.050	.617	.668	.667	.718	.677	.728	12/8	9/6	.280	.324	.403
LSMSCU/A/S-19	-04UN	19	.050	.682	.738	.732	.788	.742	.798	12/8	9/6	.354	.401	.509
LSMSCU/A/S-24	-05UN	24	.050	.790	.855	.840	.905	.850	.915	12/6	9/5	.467	.522	.630
LSMSCU/A/S-30	-06UN	30	.050	.833	.901	.883	.951	.893	.961	12/6	9/5	.539	.596	.727
LSMSCU/A/S-37	-07UN	37	.060	.926	1.002	.976	1.055	.986	1.065	12/6	9/5	.648	.707	.810
LSMSCU/A/S-44	-08UN	44	.060	1.030	1.114	1.080	1.164	1.090	1.174	12/5	9/4	.793	.861	.991
LSMSCU/A/S-61	-09UN	61	.060	1.156	1.250	1.206	1.300	1.216	1.310	12/4	9/3	.983	1.058	1.227
LSMSCU/A/S-81	-10UN	91	.060	1.369	1.480	1.419	1.530	1.429	1.540	12/4	9/3	1.510	1.600	1.887

\* Change UN to AN for LSMSCA.

\* Change UN to UD for LSMSCS.

\* Ind/Avg indicates the maximum current per conductor (ind), and the maximum current (avg) per conductor when all conductors in the cable are used.

NOTE: Conductor temperature not specified in MIL-HDBIG-XXX. Cable Comparison Handbook Electric Shipboard Cable, 1986.

NOTE: Diameters and weights may vary between manufacturers.