

ShipLAN® Non-Watertight Category 5e Cable

M24643/59-03UO, Type LSC50S-4 Non-Watertight

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

CATALOG NUMBER	PRODUCT DESCRIPTION TYPE/SIZE	MILITARY PART NO. M24643/59	# OF PAIRS	CONDUCTOR SIZE	NOMINAL INSULATION O.D.	NOMINAL CABLE DIAMETER	NOMINAL CABLE WEIGHT	BEND RADIUS
				AWG	INCHES	INCHES	LB/1000'	
LO24P0045438A	LSC50S-4	-03UO	4	24 AWG Solid	0.042	0.310	65	10X Cable O.D.

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—optimized coverage

Jacket:

Cross-linked polyolefin (low-smoke, zero-halogen) – black (BLK)

PRINT:

Including but not limited to:

GENERAL CABLE (F) LSC50S-4 M24643/59-03UO XLPOLYO LO24P0045438A SHIPLAN SHIELDED MARINE CABLE CAT5E 4/24 PAT 5767441 AAAAA* MO/YR** XXXXXX FT***
*Order Number **Date ***Footage Marking

APPLICATIONS:

For the requirements of M24643 for high speed data transmission. Tested to 100 MHz.

IEEE 802.3: 1000BASE-T (Gigabit Ethernet); 100 BASE-TX; 10 BASE-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:

M24643/59

ANSI/TIA/EIA 568 B.2-2001

ISO/IEC 11801

QUALITY PROGRAMS AND CERTIFICATIONS:

MIL-STD-790

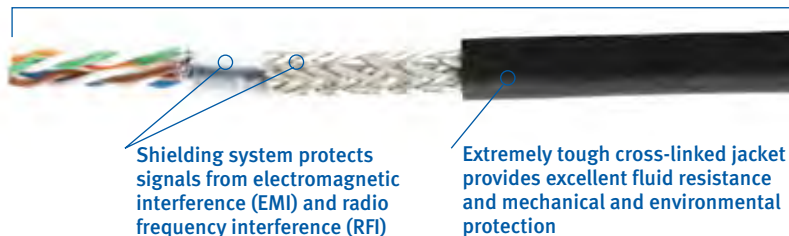
ISO 9001:2000

PACKAGING:

1000' put-ups on wooden reels

DC Resistance	9.38 Ω/100m (28.6Ω/Mft.) Max.
DCR Unbalanced	5% Max.
Mutual Capacitance	5.6 nf/100m
Capacitance Unbalance	330 pF/100m (1 pF/ft.) Max
Characteristic Impedance	100Ω +/- 15% (1-100 MHz)
Input Impedance	100Ω +/- 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.

Easy interface with shielded RJ45 connectors



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



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