

ShipLAN® Non-Watertight Category 5e Patch Cable

M24643/61-02UD, Type LSC5POS-4 Non-Watertight

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

CATALOG NUMBER	PRODUCT DESCRIPTION TYPE/SIZE	MILITARY PART NO. M24643/61	# OF PAIRS	CONDUCTOR SIZE	NOMINAL INSULATION O.D.	NOMINAL CABLE DIAMETER	NOMINAL CABLE WEIGHT	BEND RADIUS
				AWG	INCHES	INCHES	LBS/1000'	
LO24P0045638A	LSC5POS-4	-02UD	4	24 AWG Stranded	0.049	0.330	53	10X Cable O.D.

PRODUCT CONSTRUCTION:

Conductor:

24 AWG stranded tin 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:

Tin-coated copper—optimized coverage

Jacket:

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

PRINT:

Including but not limited to:

GENERAL CABLE (F) LSC5POS-4 M24643/61 -02UD XLPOLYO LO24P0045638A SHIPLAN SHIELDED MARINE PATCH CABLE CAT5E 4/24 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: 1000 BASE-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:

M24643/61

ANSI/TIA 568-C.2 2009

ISO/IEC 11801

QUALITY PROGRAMS AND CERTIFICATIONS:

MIL-STD-790

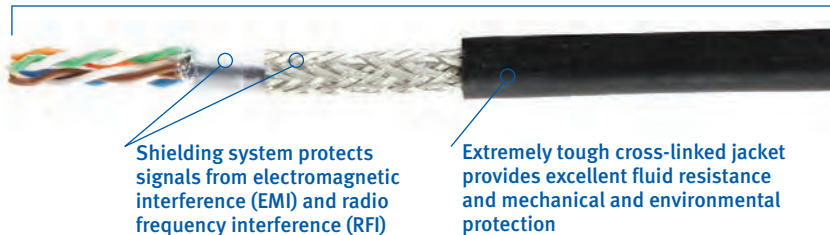
ISO 9001:2000

PACKAGING:

1000' put-ups on wooden reels

DC Resistance	14.0 Ω/100m (42.6 Ω/Mft.) Max.
DCR Unbalanced	5% Max.
Mutual Capacitance	5.6 nf/100m
Capacitance Unbalance	330 pF/100m (1 pF/ft.) Max
Characteristic Impedance	100 Ω +/- 15% (1-100 MHz)
Input Impedance	100 Ω +/- 15% (1-100 MHz)
Prop. Delay (Skew)	45 ns/100m Max.
Velocity of Propagation	69% Nom.
Temperature & Voltage Rating	-20°C to +75°C/300 V Max.

Easy interface with shielded RJ45 connectors



Shielding system protects signals from electromagnetic interference (EMI) and radio frequency interference (RFI)

Extremely tough cross-linked jacket provides excellent fluid resistance and mechanical and environmental protection

ELECTRICAL PERFORMANCE:

FREQ. (MHz)	INSERTION LOSS (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACR (dB/100m)	PSACR (dB/100m)	ACRF (dB/100m)	PSACRF (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	24.2
31.25	14.0	42.9	39.9	28.9	25.9	33.9	30.9	23.3
62.5	20.4	38.4	35.4	18.0	15.0	27.8	24.8	20.7
100	26.4	35.3	32.3	8.9	5.9	23.8	20.8	19.0



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