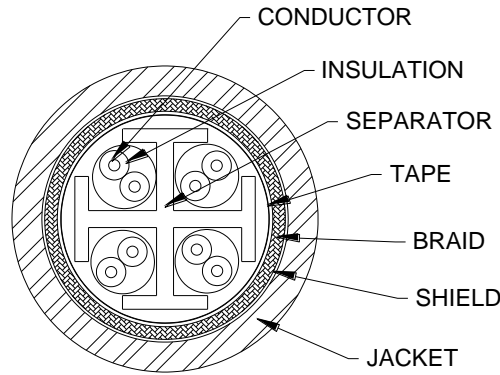


# DEFENSE-LINK®

## Shipboard LSC6OS-4

PROPRIETARY INFORMATION, DO NOT REPRODUCE WITHOUT WRITTEN APPROVAL FROM MARMON AEROSPACE & DEFENSE.



### 1. Construction:

- 1.1. Conductors: 23 AWG Solid Bare Copper
- 1.2. Insulation: Polyethylene, Nominal Diameter 0.044"
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled With Separator
- 1.5. Tape: Polypropylene Binder
- 1.6. Shield: Aluminum/Polyester Tape, 25% Nominal Overlap
- 1.7. Braid: 36 AWG Tinned Copper
- 1.8. Jacket: Black LSZH XLPO Nominal Diameter 0.370"

### 3. Compliance:

- 3.1. Acid Gas Generation: MIL-DTL M24643C (4.8.23)
- 3.2. Halogen Content: MIL-DTL M24643C (4.8.23)
- 3.3. NES 713 Toxicity: MIL-DTL M24643C (4.8.27)
- 3.4. Flame Propagation: MIL-DTL M24643C (4.8.13)
- 3.5. Jacket Immersions: MIL-DTL M24643C (4.8.26)
- 3.6. Jacket Tear: MIL-DTL M24643C (4.8.20)
- 3.7. Heat Distortion: MIL-DTL M24643C (4.8.15)
- 3.8. Weathering: MIL-DTL M24643C (4.8.28)
- 3.9. QPL Approved: Ser 05S/2020-068

### 1.9. JACKET PRINT:

MARMON AEROSPACE & DEFENSE LSC6OS-4  
M24643/77-03UO XLPOLYO XXXX


YYYY = Year of Manufacture

### 4. Category Electrical Performance:

- 4.1. Voltage Rating: 300V
- 4.2. Max. DC Resistance: 9.38Ω/100m
- 4.3. Max DC Resistance Unbalance: 5.0%
- 4.4. Nominal Velocity of Propagation: 68%
- 4.5. Max Propagation Delay Skew: 45 ns/100m

### 2. Physical Characteristics:

- 2.1. Nominal Cable Weight: 73 lbs./1,000 ft.

<b>TITLE:</b>		<b>DESCRIPTION</b>			<b>Marmon</b>		 <i>Mission Critical Connectivity Systems</i>		
<b>LSC6OS-4</b>		4 Pair 23 AWG Solid Bare Copper Category 6A Shielded Shipboard LSC6OS-4			<b>Aerospace &amp; Defense</b> <b>680 Hayward Street</b> <b>Manchester NH 03103</b> <b>Phone: 603-622-3500</b>				
Rev	Date	Detail			Eng.	App.			
5	3-17-20	Update QPL Number			KC	KW			
4	12/12/19	Updating Print Legend			KB	WC			
3	11/19/19	Updating Print Legend			KB	WC			
2	02/13/19	Rebranding; update format			PB	WC			
1	11/16/15	First Release			BAL	RN			

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All materials used are Low Smoke Zero Halogen and meet Rohs and Reach requirements for materials.

# DEFENSE-LINK®

## Shipboard LSC6OS-4

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### Category 6A Electricals

(Per ANSI/TIA 568-C.2)

Char. Impedance		Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
Freq. (MHz.)	(Ohms) (+/-15)	(dB) (Min)	(dB/100m) (Max)	(dB/100m) (Min)	(dB/100m) (Min)	(dB/100m) (Min)	(dB/100m) (Min)
1	100	20.0	2.0	74.3	72.3	67.8	64.8
4	100	23.0	3.8	65.3	63.3	55.8	52.8
8	100	24.5	5.3	60.8	58.8	49.7	46.7
10	100	25.0	6.0	59.3	57.3	47.8	44.8
16	100	25.0	7.5	56.2	54.2	43.7	40.7
20	100	25.0	8.4	54.8	52.8	41.8	38.8
25	100	24.3	9.4	53.3	51.3	39.8	36.8
31.25	100	23.6	10.5	51.9	49.9	37.9	34.9
62.5	100	21.5	15.0	47.4	45.4	31.9	28.9
100	100	20.1	19.1	44.3	42.3	27.8	24.8
200	100	18.0	27.6	39.8	37.8	21.8	18.8
250	100	17.3	31.1	38.3	36.3	19.8	16.8
300	100	16.8	34.3	37.1	35.1	18.3	15.3
400	100	15.9	40.0	35.3	33.3	15.8	12.8
500	100	15.2	45.3	33.8	31.8	13.8	10.8

### Category Color Code

Color Code	
Pair 1	Blue-White/Blue
Pair 2	Orange-White/Orange
Pair 3	Green-White/Green
Pair 4	Brown-White/Brown

<b>TITLE:</b>		<b>DESCRIPTION</b>		<b>Marmon</b> <b>Aerospace &amp; Defense</b> <b>680 Hayward Street</b> <b>Manchester NH 03103</b> <b>Phone: 603-622-3500</b>		 <i>Mission Critical Connectivity Systems</i>	
<b>LSC6OS-4</b>		4 Pair 23 AWG Solid Bare Copper Category 6A Shielded Shipboard LSC6OS-4					
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