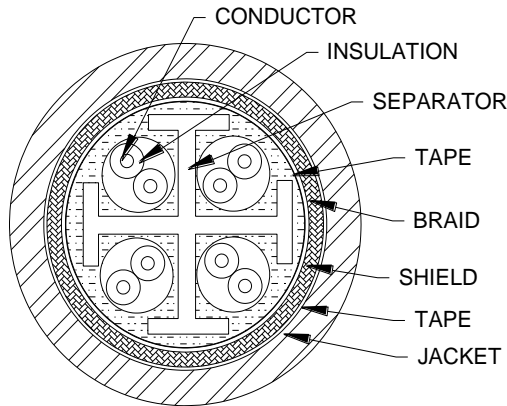


DEFENSE-LINK[®]

Shipboard Water Tight LSC6OSW-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 0.049"
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled with Separator
- 1.5. Gel: Cable Filled with Water Blocking
- 1.6. Tape: Water Blocking Tape, 100% Coverage
- 1.7. Shield: Aluminum/Polyester Tape, 25% Nominal Overlap
- 1.8. Braid: 36 AWG Tinned Copper
- 1.9. Tape: Water Blocking Tape
- 1.10. Jacket: LSZH XLPO Nominal Diameter, 0.430"

1.11. JACKET PRINT:

MARMON AEROSPACE & DEFENSE LSC6OSW-4
M24643/77-04UO XLPOLYO YYYY

YYYY = Year of Manufacture

2. Physical Characteristics:


- 2.1. Nominal Cable Weight: 85 lbs. /1,000 ft.

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. Water Tightness: MIL-DTL M24643C (4.8.22)
- 3.9. QPL Approved: Ser 05S/2020-068

4. Category Electrical Performance:

- 4.1. Voltage Rating: 300 V
- 4.2. Max. DC Resistance: 9.38 Ω/100m
- 4.3. Max DC Resistance Unbalance: 4.0%
- 4.4. Nominal Velocity of Propagation: 68%
- 4.5. Max Propagation Delay Skew: 45 ns/100m

TITLE:		DESCRIPTION:			Marmon		 <i>Mission Critical Connectivity Systems</i>		
LSC6OSW-4		4 Pair 23 AWG Solid Bare Copper Category 6A Shielded Shipboard LSC6OSW-4			Aerospace & Defense 680 Hayward Street Manchester NH 03103 Phone: 603-622-3500				
Rev	Date	Detail	Eng.	App.					
4	3-17-20	Update Approval Number	KDC	KWC					
3	1/30/20	Update Form	KDC	KWC					
2	1/7/20	Updating Print Legend	KB	WC					
1	2/11/19	First Release	WC	PB					

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DEFENSE-LINK®

Shipboard Water Tight LSC6OSW-4

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Category 6A Electricals

(Per ANSI/TIA 568-C.2)

	Char. Impedance	Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
Freq.	(Ohms)	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
(MHz.)	(+/-15)	(Min)	(Max)	(Min)	(Min)	(Min)	(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

TITLE:		DESCRIPTION:		Marmon Aerospace & Defense 680 Hayward Street Manchester NH 03103 Phone: 603-622-3500		 <i>Mission Critical Connectivity Systems</i>	
LSC6OSW-4		4 Pair 23 AWG Solid Bare Copper Category 6A Shielded Shipboard LSC6OSW-4					
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