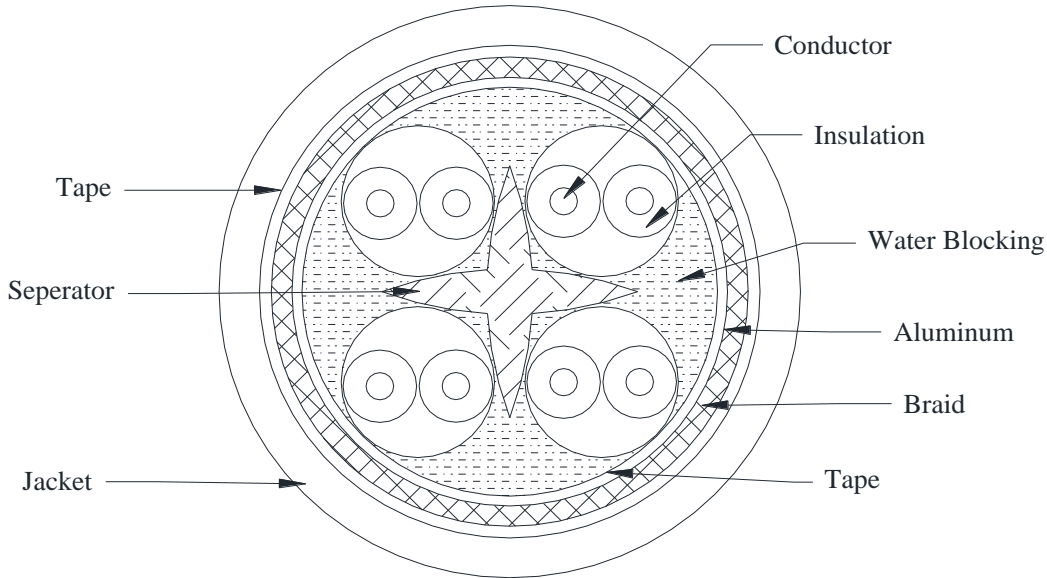


# DEFENSE-LINK<sup>®</sup>

## Shipboard Water Tight LSC5OSW-4

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



### 1. Construction:

- 1.1. Conductors: 24 AWG Solid Bare Copper
- 1.2. Insulation: Polyethylene Nom Diameter 0.042"
- 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
- 1.7. Shield: Aluminum/Polyester
- 1.8. Braid: 36 AWG Tinned Copper
- 1.9. Tape: Water Blocking Tape
- 1.10. Jacket: LSZH XLPO Nom OD = 0.370"

#### 1.11. JACKET PRINT:

MARMON AEROSPACE & DEFENSE LSC5OSW-4  
M24643/59-04UO XLPOLYO YYYY

YYYY = Year of Manufacture

### 2. Physical Characteristics:


- 2.1. Nominal Cable Weight: 70 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/2015-226

### 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: 5.0%
- 4.4. Nominal Velocity of Propagation: 68%
- 4.5. Max Propagation Delay Skew: 45 ns/100m

<b>TITLE:</b>		<b>DESCRIPTION:</b>			<b>Marmon</b>		 <b>MARMON</b> Aerospace & Defense <i>Mission Critical Connectivity Systems</i>		
<b>LSC5OSW-4</b>		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded Shipboard LSC5OSW-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.			
4	1-30-20	Update Form			KDC	KWC			
3	1/7/20	Updating Print Legend			KB	WC			
2	1/29/19	Change logo and basic corrections			SM	WC			
1	5/31/16	First Release			BAL	RN			

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# DEFENSE-LINK®

## Shipboard Water Tight LSC5OSW-4

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### Category 5e Electricals

(Per ANSI/TIA 568-C.2)

Freq.	Return Loss	Attenuation	NEXT	PSNEXT	ACRF	PSACRF
	(dB)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)	(dB/100m)
(MHz)	(Min)	(Max)	(Min)	(Min)	(Min)	(Min)
1	20	2	65.3	62.3	63.8	60.8
4	23	4.1	56.3	53.3	51.7	48.7
8	24.5	5.8	51.8	48.8	45.7	42.7
10	25	6.5	50.3	47.3	43.8	40.8
16	25	8.2	47.3	44.3	39.7	36.7
20	25	9.3	45.8	42.8	37.7	34.7
25	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17	38.4	35.4	27.8	24.8
100	20.1	22	35.3	32.3	23.8	20.8

### 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>	
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