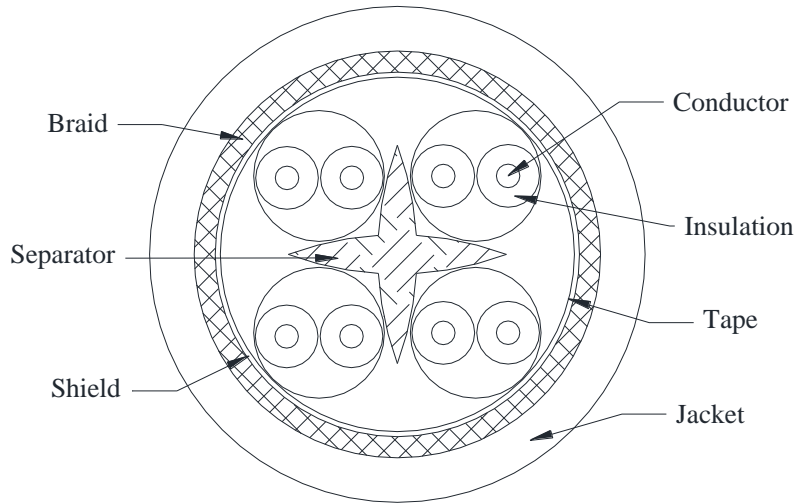


DEFENSE-LINK®

Shipboard LSC5OS-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 Nominal Diameter 0.041"
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled With Separator
- 1.5. Tape: Polypropylene 25% Overlap
- 1.6. Shield: Aluminum/Polyester
- 1.7. Braid: 36 AWG Tinned Copper
- 1.8. Jacket: LSZH XLPO Nom OD = 0.335"

1.9. JACKET PRINT:

MARMON AEROSPACE & DEFENSE LSC5OS-4
M24643/59-03UO XLPOLYO YYYY

YYYY = Year of Manufacture

2. Physical Characteristics:


- 2.1. Nominal Cable Weight: 62.0lbs./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. QPL Approved: Ser. 05S/2015-226

4. Category Electrical Performance:

- 4.1. Voltage Rating: 300 V
- 4.2. Maximum DC Resistance: 9.38 Ω/100m
- 4.3. Maximum DC Resistance Unbalance: 5.0%
- 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>	
LSC5OS-4		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded Shipboard LSC5OS-4			Aerospace & Defense 680 Hayward Street Manchester NH 03103 Phone: 603-622-3500			
Rev	Date	Detail			Eng.	App.		
5	1-30-20	Updating Form			KDC	KWC		
4	1/7/20	Updating Print Legend			KB	WC		
3	12/18/18	Change logo and basic corrections			SM	WC		
2	9/30/15	Removed extra shield			Bal	RN		
1	8/20/15	First Release			BAL	RN		

Marmon-AD reserves the right to change the information above without prior notification. Marmon assumes no risk, and is not liable for direct or indirect, or consequential damages, resulting from the use of this document
All materials used are Low Smoke Zero Halogen and meet Rohs and Reach requirements for materials.

DEFENSE-LINK®

Shipboard LSC5OS-4

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Category 5e Electricals

(Per ANSI/TIA 568-C.2)

Freq. (MHz)	Return Loss (dB)	Attenuation (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)
	(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

TITLE:		DESCRIPTION:		Marmon Aerospace & Defense 680 Hayward Street Manchester NH 03103 Phone: 603-622-3500		 <i>Mission Critical Connectivity Systems</i>	
LSC5OS-4		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded Shipboard LSC5OS-4					
Rev	Date	Detail		Eng.	App.		
5	1-30-20	Updating Form		KDC	KWC		
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