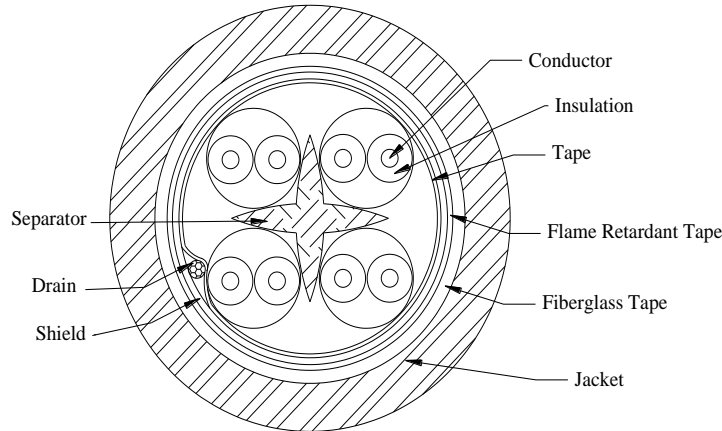


DEFENSE-LINK[®]

Shipboard LSC5FS-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 0.040"
- 1.3. Pair Assembly: Conductors Twisted to Varying Lays
- 1.4. Cable Assembly: 4 Pairs Cabled With Separator
- 1.5. Tape: Foam Polypropylene, 25% Overlap
- 1.6. Shield: Aluminum/Polyester, 25% Overlap
- 1.7. Drain: 24 AWG Stranded Tinned Copper
- 1.8. Tape: Flame Retardant Tape, 25% Overlap
- 1.9. Tape: Fiberglass Tape, 25% Overlap
- 1.10. Tape: Marker Tape
- 1.11. Jacket: LSZH XLPO, Nominal Diameter = 0.325"

1.12. JACKET PRINT:

MARMON AEROSPACE & DEFENSE LSC5FS-4
M24643/59-01UO XLPOLYO YYYY

YYYY = Year of Manufacture

2. Physical Characteristics:


- 2.1. Nominal Cable Weight: 50 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. 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

TITLE:		DESCRIPTION:			Marmon		 <i>Mission Critical Connectivity Systems</i>		
LSC5FS-4		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded Shipboard LSC5FS-4			Aerospace & Defense 680 Hayward Street Manchester NH 03103 Phone: 603-622-3500				
Rev	Date	Detail			Eng.	App.			
5	1/30/20	Update Form			KDC	KWC			
4	1/7/20	Updating Print Legend			KB	WC			
3	01/22/19	Change logo and basic corrections			SM	WC			
2	08/10/17	Added Drain wire			PB	RN			
1	08/08/17	Initial Concept			PB	RN	Q12889		

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

DEFENSE-LINK®

Shipboard LSC5FS-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	20.0	2.0	65.3	62.3	63.8	60.8
4	23.0	4.1	56.3	53.3	51.7	48.7
8	24.5	5.8	51.8	48.8	45.7	42.7
10	25.0	6.5	50.3	47.3	43.8	40.8
16	25.0	8.2	47.3	44.3	39.7	36.7
20	25.0	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	17.0	38.4	35.4	27.8	24.8
100	20.1	22.0	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			
LSC5FS-4		4 Pair 24 AWG Solid Bare Copper Category 5e Shielded Shipboard LSC5FS-4		Aerospace & Defense 680 Hayward Street Manchester NH 03103 Phone: 603-622-3500		MARMON Aerospace & Defense	
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