

**Cat. 7 4x2x24/7 S/FTP LSZH-SHF1
COMPUTER & LAN
P/N 9MG0569104**

INDUSTRY

Applications

Offshore installations, Maritime Environment, Indoor use, fixed installations, High data rates, Fixed or portable installations, Ships, High speed & Light craft



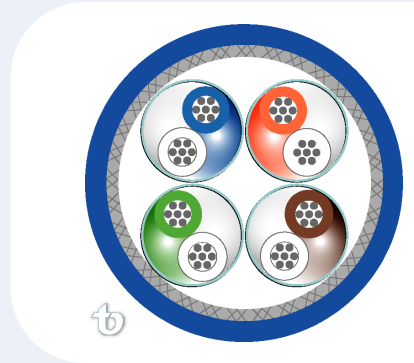
Outer Jacket Material
FR-LSZH



Outer diameter
8.1 mm nom.



Weight
65 kg/km



General Construction

Category 7, S/FTP, SHF1 marine type cable constructed with 4 individually foil-shielded twisted pairs with stranded conductors, cabled together, overall braid-shield and jacketed.

Design & Materials

Conductor Material	Annealed Tinned Copper
Conductor Size (AWG)	24
Conductor Construction	Stranded
Insulation Material	Cellular PO
Insulation O.D. (mm nom)	1.4
Conductor Unit Identification	Solid Color
Color Code	Per TIA/EIA 568-B
Ind. Shield Material	Aluminum/Polyester Foil
Ind. Shield Design	Helically applied aluminum foil, 100% coverage
Conductor Unit Lay-Up	Pairs
Overall Shield Design	Braid
Overall Braid Material	Annealed Tinned Copper
Braid Coverage (% nom)	55
Overall Drain-wire Material	Annealed Tinned Copper
Total Number Of Conductors	8
Outer Jacket Thickness (mm nom)	0.8
Outer Jacket Color	Blue
Marking	Teldor Standard Per request

INDUSTRY

Performance

Frequency Range (MHz)	1 - 600
Impedance (Ω)	100
Transfer Impedance Grade	Grade 1
Coupling Attenuation	Type I
Max. DC Resistance (Ω/km@20°C)	85
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.6
Velocity of Propagation (% nom)	78
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance (GΩ•km)	5
Voltage Rating (V)	110V not to be used as LF main power supply
Max. Installation Tensile Load (N max.)	75
Min. Bend Radius (mm)	60
Min. Operating Temperature (°C)	- 40
Max. Operating Temperature (°C)	+ 85
UV Resistance	Yes

Standards

Flammability Rating
IEC 60332-1
IEC 60332-3
IEC 60332-3-22
IEC 60754-1/2
IEC 61034-1/2
UL 1581 VW-1

Applicable Standards
DNV certified
ABS certified
IEC 60092-350
IEC 60092-359
IEC 61156-5
IEEE 802.3at (PoE+)
ISO/IEC 11801-1
RoHS 3 2015/863/EU



Electrical Properties

Cat. 7 Work Area Cables*

Freq. MHz	Attenuation dB/100m 20°C		PS NEXT Loss dB		NEXT Loss dB		RL dB		PS ANEXT dB		PS ELFEXT dB		ELFEXT dB	
	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7	Typical Value	Cat. 7
1	2.9	3.0	105.0	99.4	108.0	102.4	22.0	20.0	68.0	N/A	95.0	75.0	98.0	78.0
4	5.4	5.6	98.0	90.4	101.0	93.4	25.0	23.0	68.0	N/A	90.0	75.0	93.0	78.0
10	8.5	8.8	95.0	84.4	98.0	87.4	28.0	25.0	68.0	N/A	86.0	71.0	89.0	74.0
20	12.1	12.4	90.0	80.0	93.0	83.0	28.0	25.0	68.0	N/A	80.0	65.0	83.0	68.0
30	14.8	15.3	85.0	77.2	88.0	80.2	27.0	23.8	68.0	N/A	76.0	61.5	79.0	64.5
100	27.7	28.5	80.0	69.4	83.0	72.4	24.0	21.1	68.0	N/A	66.0	51.0	69.0	54.0
150	34.3	35.3	78.0	66.7	81.0	69.7	22.0	18.8	65.0	N/A	63.0	47.5	66.0	50.5
200	40.0	41.2	78.0	65.0	81.0	68.0	21.0	18.0	65.0	N/A	60.0	45.0	63.0	48.0
250	45.1	46.5	75.0	63.4	78.0	66.4	20.0	17.3	62.0	N/A	58.0	43.0	61.0	46.0
300	49.7	51.3	75.0	62.2	78.0	65.2	19.0	17.3	62.0	N/A	52.0	41.5	55.0	44.5

Cat. 7 4x2x24/7 S/FTP LSZH-SHF1
P/N 9MG0569104

INDUSTRY

400	58.2	60.0	70.0	60.4	73.0	63.4	19.0	17.3	62.0	N/A	49.0	38.9	52.0	41.9
500	65.8	67.9	70.0	58.9	73.0	61.9	19.0	17.3	62.0	N/A	47.0	37.0	50.0	40.0
600	72.9	75.1	70.0	57.7	73.0	60.7	19.0	17.3	62.0	N/A	45.0	35.4	48.0	38.4

*Supplied cables meet the minimum Cat. 7 transmission requirements as per IEC 61156-6 Ed. 2

Teldor Cables & Systems Ltd. (“Teldor”) reserves the right to make changes to the products described in this catalog without prior notice. Teldor does not assume any liability which may occur due to the use of the products described herein. Drawings may not be to scale and are provided for general and informational purposes only. The information contained in this catalog is the proprietary property of Teldor, and may not be used, reproduced or disclosed to others, in whole or in part, without the written authorization of Teldor.

Version 1.1 | Last update: 2025-08-27