

Cat.7 4x2x23/1 AWG F/FTP FR-LSZH COMPUTER & LAN P/N 9827A54104

TELECOM

Applications

Indoor use, fixed installations, High data rates



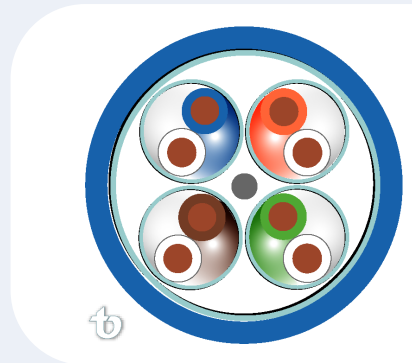
Outer Jacket Material
FR-LSZH



Outer diameter
7.4 mm nom.



Weight
50 kg/km



General Construction

The cable contains 4 individually aluminum-foil shielded twisted pairs, cabled together with a drain wire and an overall aluminum-foil-shield.

Design & Materials

Conductor Material	Annealed Bare Copper
Conductor Size (AWG)	23
Conductor Construction	Solid
Insulation Material	PO
Insulation O.D. (mm nom)	1.38
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
Drain-Wire 1 Material	Annealed Tinned Copper
Drain-Wire 1 Construction	Solid
Drain-Wire 1 Size (mm)	0.41
Overall Shield Design	Helically applied aluminum foil, 100% coverage
Overall Shield Material	Aluminum/Polyester Foil
Overall Foil Shield	Yes
Total Number Of Conductors	8
Outer Jacket Color	Blue
Marking	Teldor Standard Per request

TELECOM

Performance

Frequency Range (MHz)	1 - 1000
Impedance (Ω)	100
Transfer Impedance Grade	Grade 2
Coupling Attenuation	Type II
Max. DC Resistance (Ω /km@20°C)	73
Max. Resistance Unbalance (%)	2
Capacitance Unbalance (pF/m max)	1.3
Velocity of Propagation (% nom)	78
Propagation Delay Skew (ns/100m max)	35
Dielectric Strength (V/minute)	700
Dielectric Strength to Shield (V/minute)	700
Min. Insulation Resistance ($G\Omega \cdot km$)	5
Voltage Rating (V)	300 (*)
Max. Installation Tensile Load (N max.)	130
Max Pulling Tension (N)	15
Max. Residual Tension (MRS) (N max)	70
Min. Bend Radius (mm)	80
Min. Operating Temperature (°C)	-40
Max. Operating Temperature (°C)	+60

Standards

Flammability Rating
 IEC 60332-1
 IEC 60754-1/2
 IEC 61034-1/2
 UL 1581 VW-1
 EN 50575:2014 E_{ca} (CPR)

Applicable Standards
 IEC 61156-5
 ISO/IEC 11801-1



Electrical Properties

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	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value	Typical Value
1	2.0	105.0	108.0	22.0	68.0	95.0	98.0
4	3.6	98.0	101.0	25.0	68.0	90.0	93.0
10	5.6	95.0	98.0	28.0	68.0	86.0	89.0
20	7.9	90.0	93.0	28.0	68.0	80.0	83.0
30	9.7	85.0	88.0	27.0	68.0	76.0	79.0
100	18.0	80.0	83.0	24.0	68.0	66.0	69.0
150	22.4	78.0	81.0	22.0	65.0	63.0	66.0

Cat.7 4x2x23/1 AWG F/FTP FR-LSZH
P/N 9827A54104

TELECOM

200	26.0	78.0	81.0	21.0	65.0	60.0	63.0
250	29.4	75.0	78.0	20.0	62.0	58.0	61.0
300	32.5	75.0	78.0	19.0	62.0	52.0	55.0
400	38.0	70.0	73.0	19.0	62.0	49.0	52.0
500	43.0	70.0	73.0	19.0	62.0	47.0	50.0
600	47.6	70.0	73.0	19.0	62.0	45.0	48.0

(*) Cable voltage rate is 300 V, however the cable is not intended to be used for mains supply.

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 1.2 | Last update: 2025-02-17