

# Cat.7 4x2x23/1 AWG F/FTP FR-LSZH

Part Number: 9827A54129

**Applications:** High data rates, Indoor use, fixed installations

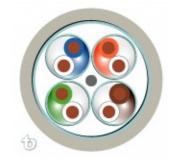
**General Construction:** The cable contains 4 individually aluminum-foil shielded twisted

pairs, cabled together with a drain wire and an overall aluminum-

foil-shield.

**Detailed Schematic:** 

Outer Jacket Material:FR-LSZHOuter Diameter:7.4 mm nom.Weight:50 kg/km



## Design & Materials

Conductor Material:	Annealed Bare Copper		
Conductor Size:	23 AWG		
<b>Conductor Construction:</b>	Solid		
Insulation Material:	PO		
Insulation O.D.:	1.38 mm nom.		
Conductor unit identification:	Solid/stripe		
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 mm		
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:	Light Gray		
Marking:	Per request, Teldor Standard		

### Standards

Applicable Standards:	IEC 61156-5, ISO/IEC 11801-1
Flammability Rating:	IEC 60332-1, UL 1581 VW-1

P/N: 9827A54129 1 / 2

### **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
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

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

#### **Performance**

Francisco Panasi	1 1000 MIL	
Frequency Range:	1 - 1000 MHz	
Impedance:	100 Ω	
Transfer Impedance:	Grade 2	
Coupling Attenuation:	Type II	
Max. DC Resistance :	73 Ω/km@20°C	
Max. Resistance Unbalance:	2 %	
Capacitance Unbalance:	1.3 pF/m max.	
Velocity of Propagation:	78 % nom.	
Propagation Delay Skew:	35 ns/100m max.	
Dielectric Strength:	700 V/minute	
Dielectric Strength to Shield:	700 V/minute	
Min. Insulation Resistance :	5 GΩ•km	
Voltage Rating:	300 (*) V	
Min. Bend Radius:	80 mm	
Max. Pulling Tension:	15 kgF	
Max. Operating Temperature:	+60 °C	
Min. Operating Temperature:	-40 °C	

Prepared By	Revised By	Version Num	Modified on
JACOB BEN-ARY	Ofer Solter	6.6	23-08-2017

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.

**Teldor Cables & Systems Ltd.** - Ein-Dor, 1933500 ISRAEL Tel: +972 4 6770555 Fax: +972 4 6770650

P/N: 9827A54129 2 / 2