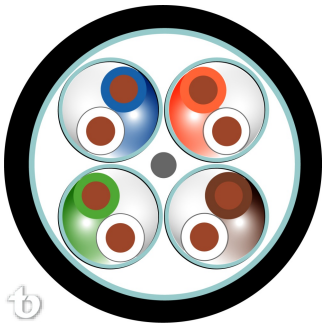
Cat.7 4x2x23/1 AWG F/FTP FR-LSZH
COMPUTER & LAN
P/N 9827A54101

TELECOM

Applications

Indoor use, fixed installations, High data rates

Outer Jacket Material	Outer diameter	Weight
FR-LSZH	7.4 mm nom.	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	Black
Marking	Teldor Standard|Per request

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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 (GΩ•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

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.

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