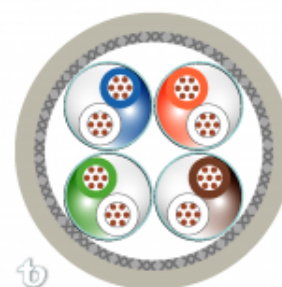


## Cat. 6<sub>A</sub> 4x2x26/7 AWG S/FTP FR-LSZH

Part Number: **9828G28xxx**

<b>Applications:</b>	High bandwidth digital applications with low BER, Indoor use, fixed or portable installations, High data rates, Work area cabling, Fixed or portable installations, Internal patch panel wiring, Indoor use, portable installations
<b>General Construction:</b>	The cable contains 4 individually aluminum-foil shielded twisted pairs, cabled overall braid shielded and jacketed with FR-LSZH compound jacket. The cable conforms to the IEC 61156-6 Cat.6 <sub>A</sub> requirements for 10GBase-T applications, working area cables. The cable is compatible with RJ-45 modular screened plug.
<b>Outer Jacket Material:</b>	FR-LSZH
<b>Outer Diameter:</b>	6.4 mm nom.
<b>Weight:</b>	45 kg/km



### Design & Materials

<b>Conductor Material:</b>	Bare Copper
<b>Conductor Size:</b>	26 AWG
<b>Conductor Construction:</b>	7x0.16 mm
<b>Insulation Material:</b>	SFS PO
<b>Insulation O.D.:</b>	1.0 mm nom.
<b>Conductor unit identification:</b>	Solid/stripe
<b>Color code:</b>	Per TIA/EIA 568-B
<b>Ind. Shield Material:</b>	Aluminum/Polyester Foil
<b>Ind. Shield Design:</b>	Aluminum face outwards
<b>Overall Shield Material:</b>	Tinned-copper braid
<b>Overall Braid Shield:</b>	Yes
<b>Overall Braid Material:</b>	Tinned Copper
<b>Braid Coverage:</b>	45 % nom.
<b>Total number of conductors:</b>	8
<b>Outer Jacket Color:</b>	See TELDOR Jacket Code
<b>Marking:</b>	Teldor Standard, Per request

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## Standards

Applicable Standards:	IEC 61156, ISO/IEC 11801, RoHS 2002/95/EC
Flamability Rating:	IEC 60332-1

### Electrical Properties:

Cat. 6<sub>A</sub> Screened-pair 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. 6 <sub>A</sub>	Typical Value	Cat. 6 <sub>A</sub>	Typical Value	Cat. 6 <sub>A</sub>	Typical Value	Cat. 6 <sub>A</sub>	Typical Value	Cat. 6 <sub>A</sub>	Typical Value	Cat. 6 <sub>A</sub>	Typical Value	Cat. 6 <sub>A</sub>
1	3.0	3.1	95.0	72.3	98.0	75.3	22.0	20.0	70.0	67.0	85.0	65.0	88.0	68.0
4	5.6	5.8	95.0	63.3	98.0	66.3	25.0	23.0	70.0	67.0	73.0	53.0	76.0	56.0
10	8.7	9.0	95.0	57.3	98.0	60.3	28.0	25.0	70.0	67.0	65.0	45.0	68.0	48.0
20	12.4	12.8	90.0	52.8	93.0	55.8	28.0	25.0	70.0	67.0	59.0	39.0	62.0	42.0
30	15.3	15.8	85.0	50.1	88.0	53.1	27.0	23.8	70.0	67.0	55.4	35.4	58.4	38.4
100	29.0	29.9	80.0	42.3	83.0	45.3	24.0	21.1	67.0	62.5	45.0	25.0	48.0	28.0
150	36.2	37.4	78.0	39.7	81.0	42.7	22.0	18.8	66.0	59.8	41.5	21.5	44.5	24.5
200	42.5	43.8	78.0	37.8	81.0	40.8	21.0	18.0	65.0	58.0	49.0	19.0	52.0	22.0
250	48.2	49.7	75.0	36.3	78.0	39.3	20.0	17.3	63.0	56.5	37.0	17.0	40.0	20.0
300	53.4	55.1	75.0	35.1	78.0	38.1	19.0	17.3	62.0	55.3	35.5	15.5	38.5	18.5
400	63.1	65.1	70.0	33.3	73.0	36.3	19.0	17.3	61.0	53.4	33.0	13.0	36.0	16.0
500	71.9	74.0	70.0	31.8	73.0	34.8	19.0	17.3	59.0	52.0	31.0	11.0	34.0	14.0

\*Supplied cables meet the minimum Cat. 6<sub>A</sub> transmission requirements as per IEC 61156-6 Ed. 2

## Performance

Frequency Range:	1 - 500 MHz
Impedance:	100
Coupling Attenuation:	Type I
Max. DC Resistance :	145 /km@20°C
Max. Resistance Unbalance:	2 %
Capacitance Unbalance:	1.2 pF/m max.
Velocity of Propagation:	80 % nom.
Propagation Delay Skew:	20 ns/100m max.
Dielectric Strength:	700 V/minute
Min. Insulation Resistance :	5 G •km
Max. Operating Temperature:	+ 70 °C
Min. Operating Temperature:	-30 °C

Prepared By	Revised By	Version Num	Modified on
Jacob Ben Ary	Jacob Ben Ary	1.3	14-07-2011

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